

UNITED STATES DEPARTMENT OF AGRICULTURE

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NATIONAL ADVISORY COMMITTEE ON

MEAT AND POULTRY INSPECTION

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PLENARY SESSION

+ + + + +

February 5, 2008

8:15 a.m.

Key Bridge Marriott
Arlington, Virginia

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1 P-R-O-C-E-E-D-I-N-G-S

2 (8:15 a.m.)

3 MR. TYNAN: Good morning. Welcome to our
4 National Advisory Committee on Meat and Poultry
5 Inspection. This is our -- I guess our winter
6 meeting. We usually do it fall and spring, but we're
7 doing a winter meeting and have some very important
8 topics that we need to talk with you about.

9 MS. TUCKER-FOREMAN: Hello. Hello.

10 MR. TYNAN: Okay. We have somebody on the
11 line, and I will explain that in just a moment.

12 It's Super Tuesday. For those of you who
13 are New York Giants fans, it's a very Super Tuesday.
14 For those of us who are New England fans, if I break
15 down and cry or anything like that, you'll understand
16 completely.

17 We do have a super meeting for you and a
18 very packed agenda over the next two days. Now
19 you'll notice on your Agenda, we have a closing time
20 of around 5:00 for the public comment period, and
21 then we'll be adjourning probably shortly thereafter.
22 So I am going to get into the business of the day. I

1 will be back in a few minutes to talk a little bit
2 about the rules of the meeting and how we're going to
3 proceed over Tuesday and Wednesday for our Advisory
4 Committee meeting.

5 But with no further adieu, I'm going to
6 introduce Dr. Richard Raymond, our Under Secretary
7 for Food Safety, so that he can provide some opening
8 remarks.

9 DR. RAYMOND: Thank you, Robert, and
10 welcome everyone to as Robert said, the winter
11 meeting. Robert, unless you're from Nebraska and
12 bleed Husker Red, you don't know what pain and
13 suffering is when a football team loses.

14 (Laughter.)

15 DR. RAYMOND: At least you're 18 and 1
16 instead of 0 and 9 or something like that.

17 (Laughter.)

18 DR. RAYMOND: It's nice to see the room
19 fill up. I think maybe we've achieved one goal that
20 we had set two and a half years ago, and that was to
21 outgrow the South Building's cafeteria for these
22 NACMPI meetings.

1 I was told a long time ago, when we started
2 talking about risk-based inspection in processing
3 plants, I was asked who are you going to use to vet
4 that through besides just the Agency, and I said I
5 plan on using the NACMPI Committee, so we'll have
6 representatives from all walks of life telling us
7 what we're doing right and what we're doing wrong. I
8 was told that NACMPI are non-events. The Agency
9 tosses them underhanded lobs so that you can hit home
10 runs and look good, and they don't have anything on
11 substance.

12 So that was two and a half years ago, and
13 look at the crowd today because we do have things of
14 substance to continue to talk about. These aren't
15 new subjects, but they're new variations of old
16 subjects.

17 I think we've come a long way since that
18 meeting back in November 2005 when we did announce
19 that we were going to begin to use NACMPI as a
20 sounding board for risk-based inspection in
21 processing plants and eventually risk-based
22 inspection in slaughter, and we've kept our word to

1 that. We've had a series of public meetings as most
2 of you know, most of you attended a lot of the public
3 meetings, where again people from all walks of life
4 have come and told us what they thought about the
5 plans, good and bad, and they're good healthy debates
6 I believe. We've taken a lot of what we've heard
7 into consideration, and I believe we continue to
8 build a system that will serve the American public
9 and the people that we export to, the countries we
10 export to, in a better fashion with a safer food
11 supply because we all do have that same goal, and
12 that's to improve the safety of our food supply,
13 particularly meat, poultry and egg products that this
14 Advisory Committee has a say in.

15 I do think somewhere along the line, we
16 need to throw open the discussion, a broader
17 discussion, a national discussion about food safety
18 and what our highest risk products are, and I'm not
19 talking just meat and poultry here. I'm talking
20 about all food products, as we've seen the number of
21 foodborne illnesses increase in produce, fruits,
22 vegetables, et cetera. I think we need to have a

1 healthy discussion about what are the risky products
2 and what level of inspection do those products get.
3 We already have by statute a lot of determinations
4 about what level of inspection meat and poultry
5 products get, but I'd also like to throw open the
6 discussion what are the lowest risk products and what
7 level of inspection should the lowest risk products
8 get, and that's part of our risk-based inspection
9 system.

10 When ground poultry plants get the same
11 amount of inspection as canned chicken soup plants, I
12 think there's a problem. When a plant that's
13 grinding beef gets the same amount of inspection as a
14 plant that's putting cooked hamburger on pizza kits,
15 I think there's a problem. But I think it relates
16 into fresh tomatoes and ketchup, I think it relates
17 into cantaloupe that's uncut and cantaloupe that's
18 sliced and in bags. I think it relates to fresh raw
19 spinach and cooked spinach. They all get the same
20 level of inspection or, in some cases, lack of
21 inspection, and I think that's a debate we need to
22 expand, too, eventually but not today and tomorrow.

1 Today and tomorrow you're going to hear
2 where the Agency is now at in its thought processes
3 about risk-based inspection in processing and risk-
4 based inspection in slaughter, and there's going to
5 be some new stuff. You've done your homework. I
6 assume you've seen, you've seen it in writing, that
7 700-page stuff on the web, most of which is
8 appendices. So I hope you didn't read all the
9 appendices but we felt if we didn't put the
10 appendices there, of course, we would be criticized
11 with a 30-page summary that says Appendix 1, Appendix
12 2. So it's there for as much time as you want to
13 spend.

14 Now I want to point out very clearly today,
15 this is definitely a work in progress. This is not a
16 fait accompli. This is not the plan that we're going
17 to roll out. In fact, I'll be honest with you, I
18 disagree with some of the things that are on the web,
19 and we've had discussions within the Agency trying to
20 reach some compromises there, and we want to hear you
21 as we build this.

22 This is a new shot at something that will

1 be far improved and better than what we intended to
2 roll out in July last summer in those prototype
3 locations. This is a product that will reflect where
4 we're going in the Agency with the Public Health
5 Information System which you will hear about, which
6 will allow us to assure that there is more
7 consistency within inspection from plant to plant,
8 inspector to inspector, so we can use noncompliance
9 reports with a higher level of confidence.

10 You will hear about the food safety
11 assessments that will be done in the majority of the
12 plants before we roll out the new risk-based
13 inspection system.

14 You will hear about the OIG Report and the
15 35 recommendations that they made, and that we reach
16 full management agreement with the OIG. We do
17 believe that we meeting those 35 recommendations will
18 give us a basis upon which to found this risk-based
19 inspection in processing and slaughter. It is
20 critical.

21 Now the timeline has changed because of
22 these things that we must do. Like the Public Health

1 Information System and the food safety assessments in
2 the majority of the plants. Those things take time,
3 and until those things are done, we will not be
4 rolling this out. So you have plenty of time, and
5 everybody else in the room and everybody else that
6 may read what goes on today that will come to our
7 public meetings have plenty of time to continue to
8 have their voices heard as we do build this.

9 There's some controversial things we're
10 going to talk about today and tomorrow, that again,
11 we will not agree on but I think we will agree on the
12 end result, to build a better, safer food supply
13 for meat, poultry and egg products. Let's just
14 remember as we go down this path to try to work
15 together to build that product. We have listened in
16 the past. We will continue to listen, continue to
17 modify, and the one thing that Joe Harris and I are
18 probably going to lament to our death beds is the
19 Nona Matrix Compromise --

20 MS. TUCKER-FOREMAN: This is Carol. I've
21 called back in, and it says I'm connected, but I
22 don't hear anything.

1 DR. RAYMOND: We hear you, Carol. Do you
2 hear me? Carol?

3 Well, anyhow, Joe, the Nona Matrix
4 Compromise that you worked so hard to get to the
5 compromise and it was going to make a great novel
6 story, the byline, the title, it's dead. It's gone.
7 But what -- and I do thank you and everyone else for
8 working through the Nona Matrix Compromise, but what
9 you're going to hear about today and tomorrow, what
10 you're going to see, is something that's going to be
11 so much easier to explain than the Nona Matrix.

12 Joe, your members won't have to go home
13 when they get a positive *E. coli* and do the math and
14 try to figure out how much those 3 points count
15 within the 35-point system, whether they move from
16 Level 1 to Level 2 to Level 3. When they pop a
17 positive, they're going to know they went to Level 3
18 if we go with what the Agency is proposing. They go
19 to Level 3 for food safety assessment and then
20 depending on what the food safety assessment shows,
21 they may go back down to Level 2 or Level 1, but
22 they'll know that night what's going to transpire

1 because of the positive. Other things are important.
2 You'll hear about this. There's more ways you can
3 get to Level 2 or Level 3.

4 Are you with us now, Carol?

5 MS. TUCKER-FOREMAN: Yeah, but I don't want
6 it on this phone. I want to be connected through the
7 line I called in on because I can just barely hear
8 it.

9 DR. RAYMOND: All I can tell you is -- this
10 is Dr. Raymond, Carol. You know I'm not a
11 technician. I can't handle a computer, can't handle
12 the phones. We've got someone working on it. So
13 we'll get to it.

14 MS. TUCKER-FOREMAN: There's nothing
15 happening on this line.

16 DR. RAYMOND: Robert, why don't we go on
17 while they try to work with Carol. So is Al up next?
18 Is that the -- I'll shut up so we can move on. We've
19 been interrupted enough here. I just want to say
20 it's been a good two and a half years. It's going to
21 be a couple of years before this rolls out. I've got
22 a little less than a year. So one of my dreams was

1 to get this done in my time. That dream won't
2 happen, but the dream still lives. I want to get
3 this far enough along during my last year that we can
4 get as many hurdles out of the way as we can. I
5 still have a passion for it as most of you do. So
6 let's work together for the next 11 months at least,
7 while I can still work with you, and let's get this
8 moving as far down the road as we can.

9 Al.

10 MR. ALMANZA: Well, good morning, everyone.
11 I want to thank everyone for coming to this meeting
12 of the National Advisory Committee on Meat and
13 Poultry Inspection, and we're going to have an
14 ambitious agenda as you can imagine. Looking at
15 those notebooks, you can tell it's not going to be
16 short.

17 Over the next two days, we're going to be
18 asking for your input on Public Health Risk-Based
19 Inspection System. The goal of the system, which is
20 science based and data driven, is to focus on our
21 resources where they can best insure food safety
22 systems are under control.

1 That focus, we believe, will help us
2 achieve FSIS' public health mission. Your input is
3 critical for us to best achieve that mission. I
4 think you will agree that in order to be successful,
5 public health decisions must be based on data. The
6 Agency has made a good deal of progress in our
7 collection, analysis and response to data including
8 using data to predict problems before they occur.
9 All of this effort is directed to better protect
10 public health.

11 At our meeting last August, we jointly
12 established the Data Subcommittee within NACMPI.
13 That Subcommittee has been an instrumental part of
14 this process and provided a tremendous amount of
15 input on the topics that we discussed in this
16 meeting.

17 I'd like to this --

18 MS. TUCKER-FOREMAN: Somebody come on and
19 told me to stand by, but nothing has happened since
20 then.

21 MR. ALMANZA: We're still working on it,
22 Carol, if you can hear me.

1 I'd like to take this opportunity to
2 publicly thank the members of the Subcommittee for
3 the assistance that they have provided up until now.
4 When we set up the Data Subcommittee, we committed to
5 sharing our data and technical reports within NACMPI,
6 and that's what we're doing here today.

7 I'm sure that you are all aware that before
8 moving forward, to a more robust risk-based
9 inspection system in processing, Congress and the
10 Office of the Inspector General, OIG, told us that we
11 needed to spend even more time examining our approach
12 and making sure we have a strong data system and
13 infrastructure in place.

14 By doing so --

15 MS. TUCKER-FOREMAN: I heard about three
16 words from the speaker, and I'm not hearing anything
17 else.

18 MR. ALMANZA: By doing so, the Agency can
19 do a better job collecting, analyzing and using data
20 in making public health decisions. I am confident
21 that in the months to come, we'll be even better at
22 what we do because we reexamined our system and

1 dedicated ourselves to strengthening our
2 infrastructure.

3 FSIS has worked closely with OIG on this
4 audit, and we're pleased that OIG agrees with our
5 responses to 35 of its recommendations.

6 This morning, you will hear more about
7 this, which I think will provide a good perspective
8 for discussion that will follow. We will tie
9 together the core issues of the report and how they
10 have been integrated into the concept that we are
11 outlining today and tomorrow.

12 One significant initiative is the
13 development of the Public Health Information System
14 that provides the foundation upon which the
15 inspection system being considered would be built.
16 PHIS will make data collection, analysis and
17 reporting easier and quicker at all levels in the
18 Agency. We'll provide an overview of PHIS this
19 morning.

20 Following that, our discussion at this
21 meeting will cover two major topics, the Public
22 Health Risk-Based Inspection System in processing and

1 slaughter activities, and how the system would
2 specifically apply in poultry slaughter. We'll
3 discuss the concept of processing today and poultry
4 slaughter tomorrow.

5 As Dr. Raymond noted, FSIS has actively
6 sought input from our consumer, industry, scientific
7 and academic stakeholders, from our public health and
8 food safety partners, and also from our own
9 employees.

10 We've made it a point to invite
11 representatives from our employee organizations to
12 come to these meetings and provide their valuable
13 perspective.

14 At this time, I'd like to recognize
15 representatives from our employee groups and thank
16 them for being here. Mr. Stanley Painter from the
17 National Joint Council of Food Inspection Locals,
18 Dr. Chris Bratcher from the National Association of
19 Federal Veterinarians, Mr. Robert McKee, Association
20 of Technical and Supervisory Professionals, and
21 Dr. Pat Basu, Asian-Pacific-American Network in
22 Agriculture. Thank you all for being here.

1 So we have a lot to cover in the next two
2 days. I want to thank you for taking time from your
3 busy schedules to join us, and I look forward to
4 hearing from each and every one of you, as we
5 continue to strengthen our systems and make further
6 strides in our mission to protect public health.

7 I'm going to turn it back over to Robert
8 who will get us through the rules.

9 MR. TYNAN: Good morning again. I wanted
10 to spend just a moment going through the rules of the
11 meeting. We do this every Advisory Committee
12 meeting, and I would refer the folks at the table to
13 Tab 3, I believe it is, in your notebook that has the
14 rules of the meeting.

15 I did want to point out that we do have a
16 couple of our Committee members that will be
17 participating by phone. As you know, you could hear
18 Carol Tucker-Foreman's voice. We also have
19 Dr. Catherine Cutter from Penn State that will be
20 joining at different times during the meeting. The
21 reason for that is both individuals participated on
22 our Advisory Subcommittee. They have a lot of input

1 in terms of the materials that you're going to be
2 looking at today, and so I felt it appropriate to
3 depart from what we normally do with our Advisory
4 Committee and allow for a phone hookup for both of
5 them so that they can participate and give their
6 perspectives on the task at hand.

7 Having said that though, we do evidently
8 have a little bit of a technical difficulty, and we
9 are going to try and correct that but we will
10 continue to move on with the meeting as quickly as we
11 can and try and get Mrs. Foreman and Dr. Cutter
12 involved in the meeting whenever we can get those
13 technical difficulties fixed.

14 But again, the meeting rules of order,
15 essentially the Chair of the Advisory Committee is
16 Mr. Almanza, our Administrator. He opens the
17 meeting, recognizes those wanting to speak. We'll
18 impose time limits if we are getting close to our
19 time and will be the person that allows for the
20 public meeting portion toward the end of the day, and
21 certainly adjourns the meeting. Characteristically,
22 Mr. Almanza, and I'm assuming he's going to do that

1 again today, will delegate that to me so that he can
2 concentrate on the discussion and I can perform
3 meeting management tasks. So hopefully that will
4 work out very well.

5 All the questions or requests to speak
6 normally are addressed to the chair. People must be
7 recognized by the Chair before speaking. What we
8 normally do every, every meeting is if you have a
9 question on a particular issue, raise the tent card,
10 stand it up on its end and then we'll find some way
11 to move around the room in an orderly fashion and
12 make sure everybody has an opportunity to comment.

13 Similarly with Dr. Cutter and Mrs. Foreman,
14 obviously they can't raise a tent card for us but
15 we'll take a moment to stop and see if they have any
16 questions or issues on any of the topics that we're
17 doing today.

18 The presentations will be followed by short
19 question and answer periods. You'll see on the
20 agenda, that in some cases, we've allowed 5 or 10
21 minutes for comments and questions. This is solely
22 for the purpose of clarifying issues that come up

1 during that presentation. Obviously the folks that
2 are prepared are trying to be as clear and concise as
3 they possibly can. Obviously sometimes that doesn't
4 necessarily resonate with you as the members of the
5 Committee. So we allow a few minutes for you to ask
6 a clarifying question.

7 We will, however, permit later on in the
8 meeting a more robust discussion of all of the
9 Committee on all of the topics. So, if we could
10 during those five-minute periods, if we could confine
11 it to addressing the issues that are at hand.

12 Speeches or statements of opinion by either
13 the Committee or members of the audience, we would
14 like you to register at the table outside, and we
15 will permit those more lengthy comments to occur
16 during the public meeting portion, which on the
17 agenda is around probably between 4:30 and 5:30.

18 The Chair approves in advance any materials
19 that are to be distributed for the meeting. So, if
20 you have handouts from your organization, the public
21 members, if you have materials that you want to hand
22 out, please check with me at the break, before you

1 put them on the table out there for distribution.

2 I think number 6, the Committee members are
3 expected to attend the plenary sessions that we'll
4 have this morning. We also have Subcommittee
5 meetings during the course of the day, and you'll see
6 on the agenda, on both days, we're going to have
7 Subcommittee sessions and report outs. So this is
8 sort of a packed agenda for this meeting. So we need
9 everybody to help in terms of responding to some of
10 the issues.

11 But if you're assigned to a particular
12 Subcommittee, our expectation is that you will
13 participate in that Subcommittee. So, if you choose
14 to go to another one or want to participate in
15 another Subcommittee, please let us know during the
16 break, and we'll try and make an adjustment so that
17 everyone can utilize their expertise the way they
18 want. We've set the committees up, sort of based on
19 what we know about each individual, where your
20 expertise would lie. For the Subcommittee people, we
21 try to break those up on each of the committee
22 deliberations for today. So we've tried to balance

1 the groups, but in doing that, we often miss a
2 particular interest that some of the Committee
3 members have. So we'll make an adjustment at the
4 break.

5 The Subcommittee Chair is designated as the
6 Chair and controls the Subcommittee deliberations,
7 and this is very important. Members of the public
8 may participate in those meetings. As I have said in
9 the past, it is up to the Chairperson of that
10 Subcommittee during the breakout to determine the
11 amount of conversation that the public has during
12 that meeting. So I allow the Chairpersons a lot of
13 latitude in determining how those discussions will
14 go. We also have provided for phone hookups for
15 Dr. Cutter and Mrs. Foreman to participate on those
16 as well.

17 And last but not least, these rules of
18 order are subject to discussion at anytime, so that
19 we can make any changes that are necessary to make
20 sure that the meetings run efficiently.

21 Any questions from the Committee at this
22 particular point?

1 (No response.)

2 MR. TYNAN: Okay. And again what we would
3 like to do when we get to the -- after the
4 presentations, if you have comments or questions,
5 please stand the tent card up, we'll try and
6 recognize you, if you could identify yourself and
7 your affiliation, we do have a gentleman here that is
8 recording the meeting as a public meeting. So we
9 will have a transcript of the meeting. So it will be
10 helpful to him, I think, to know who's speaking and
11 what the affiliation is.

12 I'm not going to go through the agenda for
13 today but I did want to mention that we have sort of
14 two phases to the meeting. Today we're going to be
15 talking about public health risk-based inspection in
16 processing and slaughter activities, and then
17 tomorrow we'll be speaking specifically about public
18 health risk-based inspection specifically in poultry
19 slaughter. So each day sort of stands by itself.
20 They are parallel tracks. You'll see in the agenda
21 that some of the topics are very similar, but we will
22 be going until 5:00, 5:30 each day, and I think I

1 mentioned that after each, we'll have a short comment
2 and question period. And I'm going to ask each of
3 the presenters, because we do have such a packed
4 agenda, to stay within the timelines that they have
5 available for them. So, if we've allowed for 15
6 minutes and 5 minutes of questions, I'm hoping the
7 presenters will honor that and stay within the 15
8 minutes we've allowed.

9 And with that, are there any questions on
10 the rules or how we're going to proceed with the
11 meeting?

12 (No response.)

13 MR. TYNAN: Then what I'd like to do at
14 this particular point in time is go around the room
15 so that everybody is introduced, and that will
16 hopefully help our Reporter.

17 I'm Robert Tynan. I'm the Deputy Assistant
18 Administrator in the Office of Public Affairs,
19 Education and Outreach.

20 MR. SMITH: Bill Smith, Assistant
21 Administrator, Office of Program Evaluation,
22 Enforcement and Review.

1 DR. MACZKA: I'm Carol Maczka, Office of
2 Food Defense and Emergency Response.

3 MR. GIOGLIO: Charles Gioglio, Director of
4 Labeling and Program Delivery Division, Office of
5 Policy and Program Development.

6 MR. ALMANZA: I'm Al Almanza, Administrator
7 of FSIS.

8 DR. RAYMOND: Richard Raymond, Under
9 Secretary for the Office of Food Safety.

10 MR. PAINTER: Stan Painter, Chairman of the
11 National Joint Council of Food Inspection Locals.

12 DR. BRATCHER: Chris Bratcher, Past-
13 President, International Association of Federal
14 Veterinarians.

15 MR. McKEE: Bob McKee, ATSP representative.

16 MR. SCHAD: Mark Schad, Schad Meats,
17 Cincinnati, Ohio.

18 MR. ELFERING: Kevin Elfering from New
19 Mexico.

20 DR. HENRY: Craig Henry. I'm with Grocery
21 Manufacturers Association.

22 MR. DICKSON: Jim Dickson from Iowa State

1 University.

2 MR. COVINGTON: Brian Covington, Keystone
3 Foods.

4 MS. JONES: Cheryl Jones, Morehouse School
5 of Medicine.

6 DR. STROMBERG: Stan Stromberg from the
7 Oklahoma Department of Agriculture.

8 DR. HARRIS: Joe Harris with Southwest Meat
9 Association.

10 DR. RYBOLT: Michael Rybolt, National
11 Turkey Federation.

12 MR. KOWALCYK: Michael Kowalczyk with the
13 Center for Foodborne Illness, Research and
14 Prevention.

15 DR. NEGRON-BRAVO: Edna Negrón from the
16 University of Puerto Rico, Mayaguez Campus.

17 DR. GRONDAHL: Andrea Grondahl, North
18 Dakota Department of Agriculture.

19 MR. TYNAN: Thank you very much. I
20 appreciate it. And so we'll begin the meeting.

21 The first presenter that we have today is
22 Mr. William Smith, and I'm going to ask him to come

1 up and do his presentation on the -- I beg your
2 pardon. We've made a change. We're going to do this
3 a little bit less formally. We're going to allow the
4 presenters to stay at their table. We have a clicker
5 so that they can move through their slide
6 presentations.

7 Before we begin, is Mrs. Foreman able to
8 join?

9 MS. TUCKER-FOREMAN: Can you hear me?

10 MR. TYNAN: Yes, we can, Carol. Can you
11 hear us?

12 MS. TUCKER-FOREMAN: I'm okay now. It took
13 a while but --

14 MR. TYNAN: Well, sorry for the technical
15 difficulties. You're breaking up just a little bit.
16 So when we get to the comment periods, we may ask you
17 to maybe speak a little bit louder or do something
18 with your phone so that we can hear you. I just
19 introduced Mr. Smith, and he's going to do the
20 presentation on the OIG Report. Bill.

21 MR. SMITH: Thank you, Robert. What I do
22 want to talk to you about is the OIG Report that was

1 issued in December 2007, specifically issues
2 impacting the development of the risk-based
3 inspection in meat and poultry processing
4 establishments.

5 As Dr. Raymond and Al Almanza said, there
6 was 35 recommendations included in that Report, and
7 I'd like to go over those.

8 We categorized them into four major
9 principles using the language in the OIG Report.

10 So this is right out of the OIG Report. I
11 think it is very germane to our discussion. A solid
12 foundation for a risk-based program that focuses
13 FSIS' inspection resources to protect public health
14 should be based upon a system that uses four driving
15 principles. Those principles are science and
16 statistical analysis, based upon high quality,
17 relevant data which focuses on risk analysis and
18 prevention, effective integration of FSIS data
19 management systems, strong information technology and
20 infrastructure and lastly, effective management
21 controls over inspection activities. And so I'd like
22 to address each one of those.

1 Under principle one, our science and
2 statistically relevant data, there was two major
3 categories in those recommendations. First was that
4 we identify how food safety assessments will
5 influence the assignment of resources as they play a
6 significant role in providing the most comprehensive
7 assessment of an establishment's food safety system.
8 And we're in total agreement with that finding.

9 Secondly, clearly define the scientific
10 basis of how components of the in-plant inspection
11 results, laboratory sampling, enforcement actions, in
12 commerce information, will be utilized as an accurate
13 characterization of an establishment's food safety
14 control. And instead of going in depth in that right
15 now, I think over the next two days' presentations,
16 you'll see how we're going to meet those two main
17 goals of this principle.

18 The next principle was effective
19 integration of FSIS data management systems, and
20 again, in this, there was three clarifying points.
21 One was clearly articulate how the accuracy of
22 inspection and production data will be substantiated,

1 clearly define the comprehensive use of data by the
2 Agency to focus inspection resources on those areas
3 of greatest risk to the public health. And lastly,
4 complete a comprehensive Agency-wide examination of
5 analytical and information needs including how or who
6 would perform analysis, who needs the analysis and
7 who takes action based on the analysis.

8 Again, over the next two days, we're going
9 to be talking about how we will use, effectively
10 integrate our data management systems. A couple of
11 key points here, we're looking at how we're going to
12 use data not only at the Headquarters' level but at
13 the field level and also how the Headquarters and
14 field levels will interact using this data.

15 I think it's also important that the
16 systems that have this amount of data, what we've
17 learned from conducting inspection over the last
18 couple of years, as well as from the OIG Report, is
19 that data mining need is an important function that
20 that needs to be automated and the results of data
21 analysis need to be programmed and then given to
22 managers to react to.

1 In the past, we've had managers or
2 supervisors and our inspection personnel in the
3 plant, they're having to go through data in order to
4 pick up trends and identify areas of concern and then
5 react to those. But as you know, every inspection,
6 every plant operates at a minimum of 240 days a year.
7 Any inspector that has 3 or 4 plants, you just
8 multiply that times 240. You have supervisors that
9 have 20 employees and 50 to 60 plants, and as it goes
10 up through the system, to 5400 plants that we
11 regulate nationally, you can see there's quite a bit
12 of data and to expect individuals to sort through
13 that and then determine trends and relate laboratory
14 results with inspection findings, with food safety
15 assessments, can be a very daunting task, and a lot
16 of that can be automated.

17 And you're going to see here that that is
18 the plan of the data integration in the new system,
19 so that again the results of data analysis, it can do
20 this trend analysis or provide it to inspectors and
21 supervisors and managers so they can react to
22 problems instead of having to dig through data to

1 find them. And I think that's a big advantage that
2 we're seeing here.

3 Principle 3 was strong information
4 technology and infrastructure. And so the critical
5 components of these recommendations focus on assure
6 you have valid data, that you institute proper
7 oversight and control during development and testing
8 of critical IT applications that support the public
9 health system, and then ensure you have capacity and
10 security of your IT infrastructure to meet the
11 requirements of implementing the public health
12 system, and we take this very seriously also.

13 The system that you're going to be hearing
14 about today will be built using the American National
15 Standards Institute, Earn Value Management Standards
16 procedures. Our software development is going to be
17 under Life Cycle Development and that's a well-known
18 standard to be applied. And as each component that
19 you'll be hearing about today is developed, there
20 will be performance testing to make sure that it
21 functions as designed, and then user testing to see
22 that the end user is going to be able to use the

1 system as the policy dictates that it should be.

2 So those are very important aspects, each
3 step of the way, to assure that we have valid data
4 and to assure that we have oversight and control
5 during development.

6 We also know that security is extremely
7 important, and the Agency is right now in the midst
8 of a major data encryption process for its computers,
9 its systems, and any media associated with the use of
10 public health information. And so that will be
11 rolling out this year also.

12 We also know that capacity-wise, that
13 you're going to see today that the amount of data the
14 Agency is going to use is going to multiply
15 significantly. And so we have to have servers and
16 systems that are able to handle that capacity. We're
17 in the process of moving a number of our data systems
18 to data centers which will provide that 24/7
19 maintenance capability as well as be much more able
20 to handle the massive amount of data that's coming
21 in.

22 And I think it's also important to note

1 that in order to run a public health system, you have
2 to have what we call a fail safe capability which
3 means if the primary application goes down, you have
4 to have the secondary system ready to turn right on
5 so you don't lose a step or beat in the process. And
6 we're in the process today of building that fail-safe
7 capability also.

8 So we feel that our information technology
9 and infrastructure will be in place to carry out this
10 system.

11 The last principle was fully implement
12 management controls so you can measure organizational
13 performance of the program at all levels of the
14 organization and then hold management and supervisory
15 personnel accountable for development of inspection
16 method, training, processes and implementation of
17 corrective measures, and the Agency again takes this
18 guidance very seriously. The Agency has implemented
19 management control across all eight program areas,
20 and we are automating that process also so that it
21 triggers in organizational performance, will be
22 flagged to the managers or responsible supervisors so

1 they can react to that.

2 And then what's key is also being able to
3 document that you follow up when you find
4 organizational performance that's not meeting
5 expectations, and that's a key component of this
6 system also.

7 So in conclusion here then, FSIS has
8 reached management agreement with the Office of
9 Inspector General, on their 35 recommendations and I
10 believe you'll see in the next 2 days here how those
11 guiding principles have been included into
12 developing the Public Health Risk-Based Inspection
13 System.

14 So are we going to take questions?

15 MR. TYNAN: We can take just a couple of
16 minutes to ask any questions of Mr. Smith if there
17 are any from the Committee? Mr. Kowalczyk?

18 MR. KOWALCYK: Yes. Thank you. In FSIS'
19 review of OIG's recommendations with respect to the
20 data infrastructure, what has the Agency done in a
21 way to get a handle on how the end users will
22 interact with this system? Are there any constraints

1 that just because of where the inspectors are out in
2 the field that would make data entry not as timely as
3 you would like? Are you looking into ways to,
4 working in those environments where they're out of a
5 slaughter or processing facility that's way out, far
6 away from wireless or broadband activity?

7 MR. SMITH: The Agency has over the last
8 years launched a major initiative to get high speed
9 connectivity to the entire field, and we have in all
10 but I believe at this point 51 locations accomplished
11 that goal. This system will be a web-based system.
12 That differs from what we have today because we have
13 what we call is a client server system, and so the
14 database actually resides on each inspector's
15 computer and then requires a lot of transmission of
16 data back and forth in order to update the servers
17 here. That becomes a security issue also trying to
18 keep 4,000 computers current and the most current
19 information on each computer. By changing to a web-
20 based application, then everything's on the servers,
21 the security is on the servers, and we do recognize
22 that there will be times when inspectors will be

1 offline and so we will build a capacity into the
2 inspector's system so that the data they collect when
3 they're offline will be accumulated until they hook
4 up to the server and then transmit that information.

5 As I said, by April, we will have high-
6 speed connectivity to all assignments within the
7 country and we're only missing 40 out of the
8 assignments we have today that have not had that
9 high-speed connectivity. And the reason that is
10 because we're putting UTN lines in and we have to
11 actually run those lines in. Everywhere else we
12 either use satellite, DSL or EVDO technology.

13 MR. TYNAN: Mr. Painter, we're going to let
14 you have the last word on this period.

15 MR. PAINTER: I'd like to make a comment on
16 -- Stan Painter, National Joint Council -- on what
17 Bill said regarding the Internet connection. In the
18 cases that I'm aware of, the satellite which is
19 supposed to be much faster and much more efficient is
20 slower and less efficient than the dial up that the
21 inspectors had and the supervisors had in the field.
22 Actually, people are actually disconnecting from the

1 satellite and plugging back into dial up to have a
2 more effective system in a lot of cases. So I'm
3 wondering in those cases where you don't have DSL and
4 you do not have some kind of wireless other than
5 satellite through Verizon or something of that
6 nature, what's being done, if anything, to speed up
7 the satellite system?

8 MR. SMITH: FSIS has approximately 640
9 connections on the satellite, and we track that very
10 closely through our help desk, and so we know the
11 amount of traffic coming in about issues with the
12 satellite, and we're documenting those. Since -- in
13 the last 6 months, we've had approximately 300
14 inquiries into our system, and we're able to turn
15 around and work with those.

16 As new technologies come on, we will be
17 moving away from the satellite because of encryption
18 issues that we'll have in the future. When we do
19 track specifics, we're able to help those folks. We
20 have yet to find a location where we have a slower
21 speed than dial up because not every dial up in those
22 locations were under 56K either. So it's comparable

1 and the advantage, while not perfect, the advantage
2 to being on the online is the satellite is they're
3 connected 24/7 as opposed to dial up.

4 So I'll be glad to discuss any of that
5 further but we understand there's problems with the
6 satellites. We're working with the satellite
7 industry. We have increased bandwidth from the day
8 we started with satellite six times, and we are
9 continually working with that vendor.

10 MR. TYNAN: Mr. Painter, I know you have a
11 follow up question, but I'm going to ask you to hold
12 the question until we get to the full, full
13 discussion. It'll be a little while, but hold your
14 question. We don't want to deter you from having it,
15 asking it. It's just in the interest of time, so we
16 can do it in the larger group session.

17 I'm going to introduce Dr. Carol Maczka so
18 that she can do an overview of the rest of our
19 session.

20 DR. MACZKA: Thank you, Robert. I'm going
21 to talk a little bit, an overview of the proposed
22 Public Health Risk-Based Inspection System for

1 processing and slaughter, and you'll be hearing a lot
2 more of the details as we go through the rest of the
3 day. So again, this is just an overview.

4 So where are we today? Well, we think
5 we've evolved since we presented on RBI last year.
6 We have examined and are in the process of improving
7 every aspect of our system. We believe what we've
8 moved towards is more of a public health based data
9 driven approach, and all of the impetus for this has
10 been concomitantly received, even from USDA, OIG,
11 from consumer groups or industry.

12 So today what we're looking for is your
13 technical input into what this proposed draft concept
14 and again, like Dr. Raymond said, this is very much a
15 draft concept, and we can't emphasize that enough.
16 Your comments are critical to us in the next two days
17 and comments we receive from the public also.

18 So what's the goal of this proposed new
19 system? It's to focus inspection activities on those
20 points that are considered vulnerable in the food
21 safety system, and you can see that really fell out
22 of one of the OIG comments that Bill went over.

1 We also want to make sure that we
2 prioritize our deployable resources to establishments
3 where we feel there is a lack of process control.
4 And what we're talking about here is deploying our
5 EIAOs and PHBs to those establishments where we
6 believe there's a lack of process control to conduct
7 FSAs and IVTs and in depth verification testing. We
8 believe that what we are proposing is resource
9 neutral.

10 So what are the components of this new
11 system? It basically has two major components. The
12 first is a algorithm to allocate resources across
13 plans, and then once we do that, you think, well,
14 what will you do you're inside of the plant? And so
15 the second part of this approach is an approach to
16 focus inspection activities at vulnerable points
17 within an establishment.

18 And what do we mean by vulnerable points?
19 Well, that's where you have the greatest microbial
20 contamination or growth if process control is not
21 maintained.

22 Okay. So this slide tries to bring the two

1 components of the system together the levels of
2 inspection and it also brings the within plant
3 activities. And what you see is we take the
4 establishments and based upon factors that we believe
5 indicate process control, we divide them up into
6 three levels of inspection, LOI 1, 2 and 3, and then
7 Level 2, we further rank in terms of potential public
8 health impact, and we're going to go into more
9 detail, what that means but basically the factors
10 that come into play here is the fraction of volume
11 that an establishment is producing for that
12 particular product based upon the national volume for
13 that product, as well as the attribution of that
14 product to the illness, public health illness.

15 So what are the three levels of inspection?
16 We have routine inspection. That's LOI 1, and that's
17 where we're going to have for cause procedures, and
18 what do we mean by that?

19 Well, let's take poultry slaughter. If at
20 the end of the line we see there's feces on a bird,
21 or if we see generic *E. coli* or maybe *Salmonella* is,
22 for a lack of a better term, out of whack, we're

1 going to send the inspector up the line to look at
2 vulnerable points in the process and to answer
3 certain questions, yes/no questions, that relate to
4 whether there are controls in place and whether those
5 controls have been implemented. So that's what we
6 mean by for cause procedures.

7 Under LOI 2, we're going to have both for
8 cause procedures and directed procedures. By the
9 virtue of the fact that you're in LOI 2, we feel that
10 there is more inspection needed, and so in addition
11 to the for cause, we're going to have directed
12 procedures.

13 In LOI 3, this is where we have in depth
14 inspection, and this is where we have not only for
15 cause and directed procedures, but this is where
16 we're also going to send deployable resources to
17 conduct FSAs and IVTs.

18 Now what do we mean for cause and directed
19 procedures, and I'm going to kind of read through
20 this with you. So, if an inspector -- in the first
21 box, if an inspector is performing a procedure as
22 part of his normal or routine inspection activities,

1 if he finds that there's a noncompliance, he's going
2 to be asked to document that NR and to verify that
3 corrective action has been taken. He's going to
4 record that in the new Public Health Information
5 System. And then some time may pass, like a week or
6 so, but based upon that NR or repetitive NRs or
7 information from the profile, which Charlie Gioglio
8 will talk about next, that combination of information
9 will cause a for cause procedure to be generated and
10 it will tell our inspector to move up the line, look
11 at certain vulnerable points, answer certain yes/no
12 questions, as to whether there are controls in place,
13 and whether they've been implemented. So it's a very
14 simplified version of what would happen and again
15 we'll go into more detail about this in about two
16 more presentations.

17 As we talk about these levels of
18 inspection, and you're probably interested in, well,
19 how do you get into a LOI 1, 2 or 3. We're going to
20 go into the criteria. Curtis Travis will go into the
21 criteria for those different levels but basically the
22 idea is you'll either be sorted into LOI 3 or LOI 1,

1 and if you don't fall into either one of those,
2 you're going to end up in LOI 2, and then you'll be
3 ranked based upon your contribution to public health.

4 So what's going to follow? First, we're
5 going to hear from Mr. Charles Gioglio. He's going
6 to talk about the Public Health Information System
7 and how it actually incorporates what I just
8 described. We're also going to go into detail about
9 for cause and directed procedures, and we're going to
10 tell you a little bit about the criteria, a lot about
11 the criteria, of placing you into the different
12 levels of inspection and what we hope to do is
13 provide you with some case studies for instance,
14 talks, of some other things we've recently had to
15 deal with, and demonstrate how this proposed system
16 would help prevent the problems that occur in those
17 kind of situations. So we'll present two case
18 studies.

19 So the benefits of the proposed system,
20 what do we think they are?

21 I'm going to go through a list, and then
22 I'm going to ask that you keep this list in mind as

1 we go through the next two days and see if you
2 believe we've actually accomplished what we set out
3 to do.

4 One of the benefits is that we think we've
5 moved now to a more data driven, science based
6 framework that operates within our current regulatory
7 framework, our current HACCP, SSOPs and SPS
8 framework.

9 We believe that it will enable our
10 inspection force to link and respond to
11 noncompliances.

12 We think it will ensure that inspectors
13 will verify the execution of decisions made by the
14 establishments with respect to their hazard analysis
15 and prerequisite programs.

16 We believe it will focus on pathogen-
17 product pairs that most contribute to disease.

18 We believe the approach now is much more
19 transparent, that all high pathogen failure plants
20 will be ranked high, that public health-related NRS
21 that are in the top percentile are ranked high. Now
22 we believe that there will be a lot of controversy on

1 this point, and we're very interested in your
2 comments as we move along.

3 We believe that we've moved away from
4 categorization, that it is independent of production
5 volume, so that we do not believe we need to use the
6 Nona Compromise that was developed, that we've
7 actually fixed this problem.

8 We also believe, and it's not shown up
9 here, that we moved away from the concern of how
10 we're going to weigh factors, what was the weightings
11 that we were going to assign and how we were going to
12 justify those. The factors that we're using will be
13 treated independently. So we think that's how we
14 solved that problem.

15 And we think that what we are proposing is
16 compatible with current sampling programs.

17 Finally, we believe that the information
18 that's collected in aggregate at these vulnerable
19 points, will provide further regulatory support for
20 enforcement actions or regulatory actions.

21 So again, we want you to keep these
22 benefits of the system in mind as we go through the

1 next two days and really comment on whether we've
2 accomplished what we've set out to do.

3 Dr. Raymond mentioned that there is a
4 timeline and I believe Carol Tucker-Foreman
5 originally asked for this, but we have actually
6 developed a timeline for the development of this
7 proposed system for the public health based
8 inspection system which Charlie Gioglio will talk
9 about next and for the poultry slaughter rule. And
10 we will be happy to show you this draft timeline, at
11 least what we're planning on operating on. We
12 realize that we may get a lot of comments that may
13 make this timeline have to be adjusted but this is
14 currently what we're currently proposing to follow up
15 and we'll be happy to distribute that.

16 And I think what I'm supposed to do is
17 introduce Charlie Gioglio now to talk about the
18 Public Health Information System, and then we'll take
19 questions and comments after that.

20 DR. GIOGLIO: Thank you, Carol. While
21 we're getting the presentation put up on the screen,
22 I just wanted to say what I'm going to provide is an

1 overview of the Public Health Information System that
2 Bill mentioned and Carol mentioned, and get into a
3 little bit more detail about the domestic inspection
4 function of that system.

5 The domestic inspection function can be
6 thought of as, in essence, I think about it as a
7 replacement for the PBIS system, the Performance
8 Based Inspection System, but actually it is more than
9 that that we're developing now. Presently we're
10 working with a contractor to work through the
11 specific requirements for the system that the
12 contractor will then go and build for us and then
13 we'll conduct the testing and so forth as Bill
14 mentioned. We're aiming at having requirements from
15 the contractor by the end of March this year, that we
16 can sign off on and then the contractor can go out
17 and build and we can follow through then with our
18 draft timeline to do the testing in the field and so
19 forth that we need to do.

20 To go back, the system itself has four main
21 components, and that is as I mentioned, the domestic
22 inspection system or the replacement of PBIS. We

1 intend to automate the import inspection function,
2 automate the export certification function in the
3 field as performed by our inspectors, and then we'll
4 have a predictive analytics function that you're
5 going to hear more about I think later.

6 I will say that it's expected that the
7 system will be employed across all establishments and
8 all facilities where we have inspection coverage. In
9 other words, both slaughtering and processing
10 establishments, okay, anyplace where HACCP plans are
11 required, as well as at official import inspection
12 facilities or even ID warehouses and so forth.

13 Okay. So the domestic inspection function
14 is as I mentioned, the replacement for the PBIS but
15 it will be a new application that will help us
16 achieve some of the strategic initiatives that Bill
17 discussed earlier that we're going to hear a little
18 bit more about later.

19 What we're working through is the system
20 for collecting detailed information regarding the
21 verification activities that happen in the plants,
22 compliance with specific establishments, and any

1 other inspection related activities.

2 The system is being designed to facilitate
3 the analysis of specific data across all levels of
4 the Agency. So in other words, Headquarters policy
5 analysts would have access to the data, folks in the
6 District Office as well as down, in fact, to the
7 inspector level or when we're planning for food
8 safety assessments in the field and so forth.

9 The whole point is to be able to identify
10 trends, okay, to evaluate those trends, so that we
11 can get in front of where problems may occur, to
12 focus our inspection activities in plants and on
13 points where either they may be vulnerable to
14 microbiological contamination based on the data that
15 we collected and analyzed or where process control is
16 not maintained.

17 The new system will incorporate, as I
18 mentioned earlier, food safety assessments or the
19 FSAs, okay. It incorporates a recording instrument
20 that will integrate the data from those FSAs, okay,
21 and other activities that the EIAOs perform with
22 other Agency data. Some of you here on the panel, in

1 fact, I know are familiar with some of the FSA
2 reports that our folks do, and they could be at times
3 upwards of, you know, 100 pages of prose and there's
4 not necessarily any specific format. It makes it
5 difficult for our folks in the districts to at times
6 analyze those reports as well as if we want to
7 analyze those reports across let's say a segment of
8 the industry or in a given district or so forth. It
9 makes that type of analysis difficult.

10 The system is being designed to make those
11 types of analyses of those data easier to deal with
12 so that, in fact, we can pull out the trends, do that
13 instead of as Bill mentioned, do the data mining by
14 hand and have people in the District Offices do that
15 data mining, allow the system to help us do it.

16 The system would also be utilized to
17 prioritize deployable FSIS resources, okay, to focus
18 on establishments with evidence of lack of process
19 control. When we use the term here, when I use the
20 term deployable resources, what I'm meaning are the
21 FSAs that are conducted by the EIAOs, directed
22 sampling activities and so forth, okay, not

1 necessarily moving inspectors from one plant to
2 another but, but focus on those deployable resources,
3 resources that we could much more easily move to the
4 places where they are, in fact, needed.

5 The system will provide a more user
6 friendly, web-based, as was discussed a little bit
7 earlier, interface for inspection teams supplying
8 data on procedures, inspection results, sample
9 requests and results, the food safety assessments and
10 the enforcement status of any given establishment.
11 The information would be much more readily available
12 through, without getting into too much of the design
13 of the system itself, through almost like we could
14 think about it as a whole page for that given
15 inspection assignment or that given inspection team,
16 where that information, because it's a web-based
17 design, would be much more readily available for
18 those folks or the people in the field so that they
19 can go ahead and plan their days appropriately and
20 know then where to focus.

21 An important thing to remember here also is
22 we're working to integrate this system seamlessly

1 with our other existing and planned systems, okay,
2 permitting the users in the field as well as other
3 analysts to use that data, okay, and to analyze the
4 data from multiple programs or, in fact, from
5 different systems within the Agency. Presently we do
6 have, because we're working oftentimes, and PBIS is
7 late 1980s technology that that's based on, and some
8 of the programs are a little bit newer than that, but
9 we are moving ahead rapidly with this system. The
10 idea is to eliminate the stovepipe systems that we
11 have across the Agency so that replacement system for
12 the PBIS will communicate effectively through the
13 data warehouse with what information we have on let's
14 say imports that may be happening or exports that
15 took place at a given establishment, for example,
16 with the FSA data, with the laboratory certainly
17 sampling data. Presently, we need to have analysts
18 that actually pull those things together, okay, or
19 have to work to do programming to integrate those
20 data so that they can be analyzed. This system is
21 being designed to facilitate that type of analysis.

22 If we just focus on replacement for the

1 PBIS, the system will document specific procedures
2 with regard to the product categories, the regulatory
3 requirements that were set out to be verified and
4 then those that, if there were noncompliances found,
5 those that were, in fact, found noncompliant for that
6 particular procedure that was performed, and the
7 method of verification used. The system will provide
8 a lot more information in this area, in the way of
9 its being designed with not a lot more burden for the
10 inspector. In essence, what we talked about within
11 our workgroups is that we are setting out to automate
12 the system that the inspectors have been employing,
13 if they're following the training that they've been
14 provided through the FSRE training and so forth,
15 they're going through these calculations as it were
16 and making these decisions on a daily basis.

17 They're going through the calculations in
18 their head, and they have not necessarily documented
19 or documented in an analyzable way. This system
20 will, in fact, provide that tool then for the
21 inspectors at the plant level as well as then for our
22 analysts across the Agency to be able to document

1 those and then to be able to utilize to direct as we
2 talked about, as Carol just touched on, to direct the
3 follow up or for cause inspection activities where
4 they need to be performed.

5 Key benefits include the ability to use
6 data, as I mentioned, and the ability to provide data
7 to enhance management controls in identifying trends.
8 So this system will work together, as I mentioned
9 earlier, with the other Agency systems, the assurance
10 in that system which is the system employed by field
11 managers for management controls.

12 I probably didn't go into any detail
13 earlier, but on the first slide, we broke down the
14 domestic inspection function here actually into three
15 parts. One is the establishment profile, the actual
16 in-plant inspection activities and the FSA component.
17 The establishment profile will provide enhanced
18 operational information regarding the establishments
19 such as the types of interventions used at the given
20 establishment, and the specific products that may be
21 produced at the establishment.

22 The enhanced demographic information such

1 as the processing activities that they employ were
2 product volume, food defense activities that we
3 presently have incorporated into our PBIS system, in
4 order to inform product sampling programs and
5 directed inspection activities.

6 Lastly, one of the key enhancements over
7 the PBIS is that the system will provide the ability
8 to document and maintain forms such as the Memoranda
9 of Interview, that the inspectors use presently with
10 their weekly meetings with establishment management
11 as well as if there were any food defense
12 vulnerabilities that are identified by the inspector
13 as they are working through food defense procedures.
14 Those forms, 5420-1 and 5420-4, are what's used in
15 the domestic establishments and then at the import
16 facilities.

17 Those, we're working to actually automate
18 those so that the inspector would input the data into
19 the system and then the system itself can generate
20 the forms and/or the memos based on the input that
21 the inspector has put in, the data the inspector has
22 put in.

1 And then on the other side, the new FSAs
2 will have questions associated with them to allow the
3 analysis of the data and not have to have analysts
4 work through a 100-page document and possibly miss
5 something, to work through, so that the correct
6 pieces of information are being collected in an
7 analyzable way. This structure will facilitate then
8 we think the critical thinking on both the EIAOs but
9 also allow for the additional analysis.

10 MR. TYNAN: Are there questions from the
11 Committee regarding either Dr. Maczka's presentation
12 or Mr. Gioglio's? And I'll take questions here, and
13 then I'll ask Mrs. Foreman and Dr. Cutter if she's
14 been able to participate to raise a question. And it
15 looks like this has been an interesting topic.
16 Mr. Elfering, I think you were up first.

17 MR. ELFERING: Yes, this is Kevin Elfering.
18 I think one of the things that I really think we need
19 to concentrate on, in looking over these documents,
20 and I realize this is more of an overview right now,
21 and a lot of draft, but I think we should really be
22 concentrating more with our current and true and

1 public health risks.

2 In reading some of these documents, there's
3 discussions about trichinella spiralis. There's talk
4 about SRM removal because of bovine spongiform
5 encephalopathy and, you know, I know that those are
6 issues but I think they're probably more trade issues
7 than they are truly public health issues. And I
8 think we should be concentrating more on things like
9 *Salmonella*, *Listeria monocytogenes*, *E. coli* and
10 things that are truly a public health risk.

11 Even in the poultry slaughter document, it
12 discusses about SRM removal. I mean, I would have to
13 ask some of the poultry experts, but I don't know if
14 there's any mad chicken disease.

15 (Laughter.)

16 MR. ELFERING: So, I mean, I think we have
17 to concentrate on things that are truly public health
18 risks. I understand that mad cow disease is
19 certainly an issue, but it's not to me a public
20 health issue. I think we really need to concentrate
21 on those.

22 MR. TYNAN: Thank you. Did you want to

1 comment, Carol?

2 DR. MACZKA: I think when we go to the
3 tables that we call the prompt tables and the for
4 cause and directed procedures, you'll see that I
5 think that emphasis is there on things like
6 *Salmonella*, generic *E. coli* and indicator process
7 control, other things that are really public health
8 related, and the thing about SRMs and chicken, that
9 is a mistake. So I think you'll see that as we go
10 along.

11 MR. TYNAN: Okay. Dr. Bratcher.

12 DR. BRATCHER: First of all, I have seen a
13 couple of mad turkeys but (laughter) but not
14 chickens.

15 MR. TYNAN: Hopefully not this morning.

16 DR. BRATCHER: Exactly. The question that
17 I have is, and I assume that probably this has been
18 addressed, but there's always a training component
19 that's necessary anytime you're doing an evolution or
20 a transition to a new type of inspection or a new
21 process. And I would like to remind you that there
22 needs to be a needs assessment and a curriculum

1 review, pretty much of what the FSRE program is and
2 what other things that we need to be doing. And if
3 we're going to be asking some of these people to
4 perform some new tasks, we need to know what they
5 need to perform, the task or function, and then the
6 new environment that we're going to be doing. What
7 is their present functional level and any of the
8 people in here that have been supervisors, and I know
9 that there are varying degrees of levels of
10 functionability between the inspection workforce that
11 we have out there today and also with the
12 veterinarians that we have in the field today.

13 And so that would bring up pre-assessment
14 basically where you would assess the functionability,
15 look at the training and educational needs of the
16 workforce and then after you have done that, I would
17 like to remind you that you need to do a post-
18 assessment and reevaluation of your training and
19 whether the people are able to do what they're being
20 asked to do.

21 The other thing that is kind of
22 interesting, and I tried to go through a lot of the

1 material, we're moving to a new science-based form of
2 inspection, and the National Association of Federal
3 Veterinarians has been in favor of doing that for
4 years, and we've been a real proponent of that.
5 We've been a proponent of doing the risk-based
6 inspection methodology and for removing the
7 veterinarian from doing some of the tasks, and I
8 think Dr. Raymond's referred to this many times, that
9 it's not a real good utilization of resources if you
10 have veterinarians giving breaks on the poultry line,
11 and if you have people that are tied to the line when
12 there are other tasks that need to be done and you're
13 short-staffed. So we're very much in favor of that.

14 And there was a task force of veterinarians
15 I think in 2001, a report, also pointed out the
16 importance of a system like the PHIS, and I'm very
17 glad to see that we're doing those things as well.
18 But if we truly are moving into a new science-based
19 inspection system, I would hope that we would look at
20 this not just as an evolutionary process but maybe a
21 revolutionary process because the industry is making
22 significant changes and doing a lot of things that

1 are much different today than what they've been doing
2 in the past and given the ability to do things, I
3 think that they can move this process much further
4 forward than what we're even looking at maybe in this
5 room today.

6 MR. TYNAN: Dr. Bratcher, not to interrupt,
7 but that's -- is there a question there because what
8 we're going to use this time for is clarification.
9 So not to cut you off. I think all the points you're
10 making are important, but if there's a question, we
11 need to get it out on the table, or I'll ask you to
12 hold that maybe until the --

13 DR. BRATCHER: The question is there are no
14 educational requirements for any of the positions in
15 FSIS today with the exception of the PHBs that are in
16 the in-plant positions and the DVMs that are in the
17 District Offices, and I would, I would like to know
18 if the Agency has thought about the educational
19 requirements that need to be in place for CSIs,
20 EIAOs, FLSSs, DDMs, DMS, and all the way up through
21 the chain of command?

22 MR. TYNAN: Okay. Thank you, Dr. Bratcher.

1 I'm going to let Carol or Mr. Smith address that, and
2 then perhaps either during the open discussion, we
3 have Dr. Karlease Kelly here who is the head of our
4 Office of Outreach, Education and Employee Training,
5 and she may be able to address some of those issues
6 as well. So we'll sort of loop back.

7 MR. SMITH: Just real quick. We agree that
8 an assessment needs to be done. There is an
9 educational requirement for the EIAOs, and the
10 requirements phase, once we go through this
11 developmental and this continuous input into
12 developing this, once we get our requirements, then
13 we can develop our policy and then we can do, and I
14 agree with you, we need a skills assessment on who's
15 going to do what and then how we train people. I
16 fully agree with you.

17 MR. TYNAN: Okay. Mrs. Foreman, are you on
18 the line? Do you have a comment? I know we can't
19 see a tent card up. So --

20 MS. TUCKER-FOREMAN: Can you hear me okay
21 now?

22 MR. TYNAN: Yes, you're breaking up just a

1 little bit, but go ahead and give it a try.

2 MS. TUCKER-FOREMAN: Okay. It took me a
3 while to get on. I -- at all. I do have a question
4 about information -- the OIG Report. Now that the
5 Agency has reached management agreement -- on all of
6 the -- the Agency has reached management agreement --
7 and, in fact, the OIG audit -- supposed to be carried
8 out -- after the agreement -- latest, and yet --

9 MR. TYNAN: You're breaking up a little
10 bit, Carol.

11 MS. TUCKER-FOREMAN: And on page 38 of the
12 Report -- being able to get information --
13 recommendations and -- management agreement but
14 nothing has happened. So how does the Agency -- this
15 time to make sure specifically on information
16 technology -- agreed to with OIG --

17 MR. TYNAN: Okay. Mrs. Foreman, if I
18 understand your question, it has to do with how we're
19 going to assure this time with the OIG that the IT
20 issues actually happened. Is that correct?

21 MS. TUCKER-FOREMAN: That's correct.

22 MR. TYNAN: Okay. Fine. I'm going to let

1 Mr. Smith respond to that question.

2 MR. SMITH: Yes, thank you for your
3 question. A couple of things. We are putting in
4 place an automated tracking system as another program
5 that's in OPEER, that will be tracking each and every
6 one of these recommendations and their due date and
7 how we're progressing along and, in fact, we have
8 already issued interim reports on some of the
9 recommendations especially in the IT. So we've
10 already put that in place. So we will hold ourselves
11 accountable to doing that.

12 MR. TYNAN: Were you able to hear the
13 response, Carol?

14 MS. FOREMAN-TUCKER: Yes. Thank you.

15 MR. TYNAN: Okay. I'm going to go to
16 Mr. Covington. I'm going to let him have a question,
17 Dr. Henry, and then we're going to perhaps take a
18 quick break. I think we're a little bit ahead of
19 schedule, which is good.

20 MR. COVINGTON: Thank you. Brian
21 Covington. Carol, you mentioned the timeline
22 associated with the progress and implementation of

1 the PHIS system. Is that timeline the one that's
2 consistent in the OIG Report?

3 DR. MACZKA: Yes, it is, and it's not just
4 the PHIS, but also the system that we're describing
5 here today as well as the poultry slaughter and we'll
6 be happy to, as I said, give you a copy of this draft
7 timeline which is subject to change.

8 MR. TYNAN: And we'll have the timeline --
9 we'll pass it out during the break and have extra
10 copies out on the table outside for the public that
11 is interested. Dr. Henry.

12 MS. TUCKER-FOREMAN: Will you have one
13 e-mailed to me?

14 MR. TYNAN: We will. Yes, we will do that.
15 And we will try and do it as soon as we can.

16 Okay. Dr. Henry, please.

17 DR. HENRY: Thank you, Robert. Quick
18 question, Charlie. Relative to the PHIS system, it
19 appears to be such an advancement beyond PBIS, and
20 with the implication it has for the new risk-based,
21 you know, public health system, do you foresee a
22 phase in period to establish baseline data to all

1 plants because you have a lot of different points
2 that the inspectors would react to, the profiling
3 that needs to be done, et cetera. So how does that
4 fit in, and is that built into your timeline? Thank
5 you.

6 MR. GIOGLIO: In fact, that is built into
7 the timeline, the draft that we have. We actually
8 are -- presently we're concentrating on setting the
9 requirements for the system and design of the system
10 and so forth, and we have begun discussion about how,
11 in fact, we will do both things, both implement the
12 system in the most effective way that we can across
13 the country as well as get our inspectors and others
14 across the Agency trained appropriately.

15 So we haven't made any decisions along
16 those lines exactly about how we're going to
17 implement yet but, you know, we recognize that we
18 have some options there and we do need to work
19 through, and I expect that to be, you know, likely --
20 this entire process --

21 MR. SMITH: I just want to add real quick.
22 We have agreed with the Office of the Inspector

1 General on how we will perform and where we will
2 perform food safety assessments prior to the
3 implementation and, two, the other piece about the
4 data integration where we said we had that in the
5 statistical basis for our windows and frames and
6 decisions, Carol and her folks will be presenting
7 that later and will be open to discussion and those
8 we'll set pretty much the baseline that you're asking
9 about, and you'll be fully aware of those before any
10 implementation.

11 MR. TYNAN: Okay. One last question from
12 the Committee.

13 (No response.)

14 MR. TYNAN: Okay. There being none, I'm
15 going to suggest, we're just a little bit a head of
16 schedule, but I think we're going to need that time
17 this afternoon. So, if it's agreeable to everyone,
18 I'm going to suggest that we take a break now rather
19 than a little bit later. I'd like you to come back
20 at 10:00, and in the meantime, we'll change
21 presenters and try and get the timeline available for
22 you.

1 (Off the record.)

2 (On the record.)

3 MR. TYNAN: Can I ask everybody to take
4 their seats again please?

5 (Pause.)

6 MR. TYNAN: If everybody's ready, we're
7 going to get started on the second part of our
8 morning agenda.

9 I'm going to invite, Mrs. Foreman, if
10 you're near a computer, if you have some issues with
11 getting a question to us, you want to send me an
12 e-mail I will try and read the question. We are
13 having just a little bit of difficulty hearing you
14 with your phone. It's breaking up, and we want to be
15 sure that you have an opportunity to ask the
16 questions or make the comments that you would like.
17 So I will invite you to do that.

18 MS. TUCKER-FOREMAN: Hello. Hello. What
19 I'd like to suggest is let me try using it without
20 the earpiece one minute if you would. Hello.

21 MR. TYNAN: You sound good. We can hear
22 you now.

1 MS. TUCKER-FOREMAN: You can hear me?

2 MR. TYNAN: Yes. Very clear.

3 MS. TUCKER-FOREMAN: I've still got the ear
4 piece on. I don't know what the problem was before.

5 MR. TYNAN: Well, if you start to break up,
6 as I say, you can send me an e-mail, and I will try
7 and reflect your question as accurately as I can.

8 This morning, we talked, we gave some
9 overview presentations. Now we'd like to get into a
10 little bit more of the detail. I have Dr. Erin
11 Dreyling, who is a data analyst with our Office of
12 Food Defense and Emergency Response, and she's going
13 to give a little bit of discussion, a more detailed
14 discussion about the within establishment inspection
15 concept, and then we'll have Dr. Arnold who will give
16 a case study. And with that, I'll turn it over to
17 Dr. Dreyling.

18 DR. DREYLING: Thank you, Robert. Good
19 morning to everyone.

20 As Robert said, what I'd first like to do
21 is to go over more of the details of the within
22 establishment Public Health Risk-Based Inspection

1 System for both processing and slaughter
2 establishments. And I'm going to give you an
3 overview, and then my colleague, Dr. Arnold, is going
4 to provide you an example of how this system would be
5 implemented for a specific product category. And
6 what she's also going to do is to go over a case
7 study with you. She's going to talk about Topps and
8 give you an idea of how we feel the proposed system
9 would have addressed the problems we have encountered
10 in this situation.

11 So with that, as you've heard already this
12 morning, the within establishment system is designed
13 to focus our inspection activities on vulnerable
14 points within an establishment. And when we're
15 talking about a vulnerable point, what we're talking
16 about is a point within the establishment that has
17 the potential for the greatest microbial
18 contamination or growth if process control is not
19 maintained.

20 So how will this play out in the new
21 system?

22 Inspectors will carry out their existing

1 inspection activities, such as for HACCP or SSOPs,
2 and when prompted by the new Public Health Inspection
3 System, they will go to vulnerable points, and they
4 will answer questions about those vulnerable points.
5 And I want to make a few points here.

6 One is that the prompts I am talking about
7 will be built into the Public Health Inspection
8 System. The inspector will not have to notice that a
9 certain NR has been recorded or that a certain
10 profile change has occurred. The system will be
11 monitoring his recorded NRs and changes in the
12 profile information, and if a certain signal occurs
13 and these are things that are public health based,
14 such as sanitation NRs or a change in your HACCP
15 plan, these are things that the system will have
16 built into it, and it will prompt the inspector to
17 then carry out this procedure where he looks at
18 vulnerable points and answers questions.

19 And these prompts and the questions are all
20 specific to the nine HACCP categories that FSIS has
21 designated. And each specific product category has
22 its own prompts and each prompt has its own

1 designated vulnerable points and questions that are
2 associated with it. And we are going to go through
3 an example of the prompts and the questions as we
4 move forward today.

5 The next thing I want to point out is that
6 observations that the inspector makes at these
7 vulnerable points is not intended that if you get --
8 these are yes/no questions. And it is not intended
9 that if you get a no, that you will get a NR. It is
10 the aggregate observation of those points that will
11 allow the inspector to decide whether or not
12 compliance is present. And we feel that this will
13 also add some additional support for enforcement
14 actions when appropriate.

15 And I want to point out here that the
16 things that the inspector will be looking for, the
17 vulnerable points, we will be developing compliance
18 guidelines that will be posted on the web and that
19 industry and consumers will have the opportunity to
20 comment on. So we will be interacting with industry
21 as we develop these, and we are doing this within our
22 existing regulatory framework. This is not any

1 additional layers of regulations for industry.

2 And I want to also as we've already had the
3 question this morning, point out that we are working
4 closely with the training part of FSIS, and we have
5 already begun our discussions on developing the
6 training that will be necessary to implement this
7 system, and for the inspectors to understand how to
8 make observations at vulnerable points and what to do
9 with that information.

10 I just want to give you a brief overview.
11 This lays out how within establishment inspection
12 will work in our new Public Health Information
13 System.

14 First, as you can see, the inspector will
15 perform a procedure as part of their routine
16 activities in an establishment. If they find a
17 noncompliance, they will document it and they will
18 verify that corrective actions have been taken, and
19 they will record their noncompliance report in the
20 new Public Health Information System.

21 And then as I was saying, the Public Health
22 Information System will be monitoring NRs that are

1 recorded or groups of NRs that are recorded or
2 changes in profile information and when appropriate,
3 it will issue a for cause procedure that the
4 inspector will carry out. And when he carries out
5 that for cause procedure, he will be looking at the
6 vulnerable points and answering the questions that
7 are appropriate for those points. And those are
8 specific to each of the nine HACCP product
9 categories.

10 The inspector will record his response to
11 the questions in the new Public Health Information
12 System and they are yes/no questions and they will
13 also have the ability to say not applicable because
14 some of the questions may not be applicable for a
15 certain establishment given their circumstances that
16 they're working under.

17 And I do want to point out that we've
18 already alluded to this, this morning, that certain
19 levels of inspection, if you are in the middle
20 category or the highest category for inspection, you
21 will be having what we're calling directed
22 procedures. And this will be having the inspector go

1 to the vulnerable points and answer questions but a
2 prompt will not be necessary. We feel that if you
3 are in the middle or the highest category, there is
4 an indication that you do not have process control,
5 and we have reason to believe that we should be
6 looking at your system to ensure that process control
7 is being maintained. So we will have directed
8 procedures at a frequency that the Agency will
9 determine where the inspector will go to vulnerable
10 points and answer the questions.

11 I want point out that this goes along with
12 the OIG request that the system should be data driven
13 and science based. We have developed this proposed
14 within establishment system. Based upon the
15 scientific literature, we have identified the
16 vulnerable points from the scientific literature and
17 also used the literature to inform the questions that
18 we've developed for inspectors.

19 Also, this is based heavily upon our past
20 experiences with HACCP and contamination events, and
21 importantly, also we have gathered FSIS experts for
22 policy and from the field and from training and we

1 have had them sit down in the room and develop the
2 prompts and the questions that are in this proposed
3 system.

4 I want to go over briefly the benefits that
5 we see for the proposed within establishment system
6 and then my colleague, Dr. Arnold, is going to give
7 you a real life example to really show you how we
8 feel these benefits would play out.

9 First, as we've already discussed, this
10 system is designed to focus on the identification of
11 vulnerabilities within the overall food safety
12 system, and we feel that we will be doing this by
13 helping inspectors to verify that establishments are
14 carrying out the decisions that they have made in
15 their hazard analysis such as the implementation of
16 prerequisite programs.

17 And, we also feel that this system is
18 designed to help establishments to link and respond
19 to noncompliances and to verify that corrective
20 actions are fully carried out by the establishments.

21 And as we've already discussed, the
22 inspection results are going to be automatically

1 monitored by the public health information system,
2 and it will be detecting anomalies and therefore it
3 will be prompting inspectors to respond to these
4 anomalies and to examine vulnerable points within the
5 establishment.

6 So I'm going to turn this over now to
7 Dr. Arnold, and she is going to go through one of the
8 prompt examples that I've talked about. So this is
9 an example for a fully cooked, not shelf-stable
10 product, and she's going to go through the prompt and
11 the vulnerable points that have been identified for
12 it and also the questions that the inspector would
13 answer when he or she went to look at those
14 vulnerable points.

15 DR. ARNOLD: Thank you. Good morning. The
16 example that I'm going to give you, we had developed
17 associated with as Erin said the fully cooked, not
18 shelf-stable product, and as a result, as you've
19 already heard this morning of the OIG audit,
20 regarding the issues impacting the development of RBI
21 of meat and poultry processing establishments. We
22 kept in mind what we need to do as far as moving

1 forward and evolving into the next steps in the
2 implementation of HACCP. It's been a long process
3 and the last time I was here, I spoke to you about
4 the implementation of HACCP. So now I'm here talking
5 to you about the implementation of the Public Health
6 Risk-Based Inspection System.

7 And, we were guided by the OIG audit in our
8 decisions and development of the process, and we
9 looked at the different processes and tried to think
10 about what might be appropriate prompts in the
11 particular process where we could look at, as Carol
12 mentioned, issues where we might have excessive
13 microbiological outgrowth if these points were not
14 controlled. And it's not that they're CCPs.

15 So the prompt description here is product
16 temperature not controlled by the CCP throughout the
17 process, and in many HACCP plans for fully cooked not
18 shelf-stable products, companies have control points
19 for the temperature controls in storages. They do
20 not have CCPs for the temperature controls in certain
21 steps. So this is one of the vulnerable points that
22 we identified.

1 And the threshold, what we would be looking
2 at is two or more observations associated with
3 temperature problems, with noncompliances associated
4 with 03G01, and this is just one possible example of
5 a prompt in fully cooked. There's several other
6 ones. So I just wanted to mention that isn't just
7 one prompt.

8 When we looked at the vulnerable points, we
9 looked at what would be expected as a control point
10 in the process. We tried to look at process control
11 in a fully cooked, not shelf-stable process. We
12 identified receiving and storage, processing which
13 could encompass many different components and then
14 storage and shipping as the vulnerable points in that
15 process. Utilizing as, Charlie Gioglio had talked
16 about this, this morning, the enhanced establishment
17 profile information, the Public Health Inspection
18 System. We are going to know certain information
19 about that establishment and certain programs that
20 they may have, requisite programs or controls in
21 place, and using that information, will then drive us
22 to certain questions that the inspection personnel

1 will be asking themselves and looking for either a
2 yes, that's great, let's move onto the next thing, or
3 no, do we have an issue here or not, is the process
4 in control or not in control or not applicable.

5 So as you see here, at the receiving and
6 storage vulnerable point, we have questions like does
7 the establishment have measures to ensure materials
8 received are wholesome and safe? Yes or no. Are
9 control measures being implemented? So we're looking
10 at the control measures as Carol indicated earlier.
11 Are they being implemented? You know, when they say
12 that it's not reasonably likely to occur because we
13 have this prerequisite program in place, are they
14 actually implementing what they indicated they would
15 implement?

16 Does the plant have controls on incoming
17 amounts of microbes on the product or adjust their
18 processes according to incoming loads? We know that
19 many companies test their product and evaluate
20 incoming product and have purchase specifications
21 associated with that product. And we want to know,
22 are the controls being implemented? It's just a

1 simple yes or no.

2 And the next is does the establishment have
3 appropriate controls for returned products? We know
4 that in a lot of plants this is another issue,
5 returned products, how they handle those returned
6 products, what they do to those returned products,
7 whether they accept the returned products. Yes or
8 no. And then are controls being implemented?

9 And the last question relates directly to
10 the prompt that I reviewed, does the establish
11 monitor product temperatures during storage?

12 So those would basically be some of the
13 questions that the inspector would be prompted to
14 think about when there is identified a problem in
15 that process.

16 The next vulnerable point was the
17 processing step, and once again, utilizing the
18 enhanced establishment profile from the Public Health
19 Inspection System, we are going to focus on certain
20 questions based on that profile of information and
21 the first question is, if not a CCP, does the plant
22 achieve sufficient lethality?

1 We know a lot of processes that may
2 identify a CCP, such as water activity, but they do
3 have a lethality step that may not be a CCP. So, if
4 they do have that, we're wanting to know whether the
5 lethality was achieved and whether it was sufficient
6 or not. Once again, we'll be using the information
7 in that enhanced profile to know whether that would
8 be an appropriate question to ask at this
9 establishment.

10 Is rework and carryover addressed in the
11 hazard analysis? Again, we know that that's a
12 problem, depending on whether the answer is yes or no
13 or hopefully not applicable. Where we evaluate that
14 information in the system would be able to look at
15 those things.

16 Does the plant have controls in place to
17 ensure cross contamination including different
18 species does not occur? Are controls being
19 implemented?

20 Once again, go back to that, you know, are
21 we seeing the controls and are they being
22 implemented.

1 Does the establishment have proper
2 procedures to follow up positive *Lm* results on food
3 contact surfaces or environmental samples? Yes or
4 no. And is the plant carrying out follow up
5 procedures? When they have that positive on food
6 contact surface, what are they doing? Yes or no. Do
7 they do something?

8 And then are the establishments under
9 Alternative II or III, we're focusing on Alternative
10 II and Alternative III that are using sanitation
11 programs adequately implementing the program and
12 controls? So we're not actually looking at
13 necessarily sanitation SOPs. What we're looking at
14 is what's spelled out in Part 430 of the requirements
15 for those establishments operating under those
16 specific alternatives.

17 And then last is, has the establishment
18 undergone recent construction, and if so, has it
19 increased *Lm* monitoring? And do records show
20 increase in *Lm* in the environment?

21 So those would be the basic questions, yes,
22 no, or not applicable that would give us more

1 information for the system.

2 As Carol indicated, this is going to be
3 data driven. It's going to be science based, and
4 it's going to look at what we currently have and then
5 enhance that.

6 And then the last vulnerable point is
7 storage and receiving, and we're going to ask the
8 question, does the establishment have verifiable
9 temperature controls in the storage? We know at
10 least in those establishments that have post-
11 lethality exposed product, if they do have
12 contamination with *Listeria monocytogenes*, that if
13 they're not controlling the temperature, that has an
14 added component in the there that once again the
15 process is not under control.

16 Does the establishment monitor conditions
17 in storage areas that would cause adulteration of the
18 produce, such as over spray, dripping water, et
19 cetera? So once again, a lot of companies have these
20 control points in place and so we're just looking at
21 those control points to make sure that the overall
22 process, we're moving more towards the systematic

1 approach to inspection. It's kind of like anyone who
2 has children, you know, connect the dots. They have
3 dots, they connect them, and that's what we're doing
4 now. We're going to be connecting those dots, moving
5 forward to help inspection personnel understand this
6 has to be a system approach to how we evaluate that.

7 And then the potential regulatory outcomes,
8 we've identified in the process different outcomes
9 depending upon what may occur in that particular
10 system, based on all the feedback and information
11 that we gather on the system. A good example is when
12 they have a process control as a CCP and their hazard
13 analysis decisions are not supported, which you will
14 see in the case that I'm going to present for you
15 next, and we're looking at those and in particular
16 control of *Lm* in post-lethality exposed ready-to-eat
17 product. So those were a few of the possible
18 outcomes.

19 Now I'd like to move on at this point to
20 our case study and we're going to be talking about
21 Topps Meat Company, and the multistate outbreak of *E.*
22 *coli* O157:H7. And we know that there originally was

1 a food safety assessment in October of 2005 as a
2 direct result of an illness that was reported in a
3 child, and that that assessment resulted in the
4 establishment's reassessment of their raw ground
5 HACCP plan and the reevaluation of their prerequisite
6 program. They had been issued a noncompliance at
7 that time of the FSA for failure of the prerequisite
8 program purchase specifications.

9 And the other thing that happened about the
10 same time was that the company also got new
11 management. So there was a number of changes that
12 were occurring in October of 2005.

13 Then we jump ahead to the present and the
14 FSA that just took place in September of '07, once
15 again in response to illnesses with *E. coli* O157:H7,
16 that were reported and clustered in the northeast,
17 there was also a case in Florida, where that food
18 safety assessment actually showed that there had been
19 many, many changes to the programs, probably due to
20 new management. They were trying a lot of different
21 control programs, and a lot of those changes, the
22 company was not actually making the necessary

1 verification activities for the new programs, weren't
2 implementing the new programs very well, so the fact
3 that they did not consistently execute those controls
4 to make ensure that the source material were free of
5 pathogens, actually was the underlying cause, and
6 that goes back to the example I had just presented to
7 you with the hazard analysis and how important that
8 is when a company determines what food safety hazards
9 are reasonably likely to occur.

10 In this particular case, there was a lack
11 of understanding of the hazards associated with *E.*
12 *coli* 0157:H7 and the appropriate controls that the
13 company had in place. They really did not reassess
14 appropriately based on the information that the
15 Agency presented in the Federal Register.

16 They also had a lack of ability to identify
17 problems at the establishment and at the
18 establishment level which played a part in that
19 problem. There was a lack of support and sound
20 decision associated with the hazard analysis.
21 Basically the hazard not reasonably like to occur
22 determination was not supported in the hazard

1 analysis. There was a lack of sufficient process
2 controls in place and verification of the appropriate
3 implementation. There was a failure of the purchase
4 specification program that they had designed when
5 receiving in particular imported product, but also a
6 failure due to the COAs that they were receiving from
7 other suppliers to verify that the slaughter plants
8 that were supplying the establishment actually were
9 functioning. So they really had designed a faulty
10 purchase specification program and since that was the
11 beginning of the process, the whole system basically
12 failed.

13 So they also failed to properly identify
14 the intended use of the product and this factor, the
15 fact that they didn't really look at the intended
16 use, also played into the food safety decision making
17 that was faulty.

18 So all of that together, of course,
19 resulted in the massive recall and problems at the
20 particular establishment.

21 So in response to the OIG audit in December
22 of 2007, the Agency set about looking at the risk-

1 based inspection system, and we have been working on
2 developing the Public Health Risk-Based Inspection
3 System which actually is vastly improved over what
4 was previously thought of as risk-based inspection.

5 The system now would be able to improve
6 inspectors' understanding of *E. coli* O157:H7 hazards
7 and controls because the system is more closely
8 linking activities to the regulatory foundation and
9 citations to increase that understanding, so that
10 when inspection personnel perform procedures, they
11 actually understand the regulatory basis for
12 performing that procedure, and what they're supposed
13 to be looking at. The system also fosters inspector
14 thinking in terms of the overall food safety system
15 to provide a broader understanding of what those
16 hazards are.

17 There will also be automated monitoring of
18 the inspection result and built in alerts of
19 anomalies including a lack of inspection activities.
20 That's going to also assist. We're going to enhance
21 the data collection and assessment to allow more
22 timely reaction to emerging trends. If the system

1 had been in place, I'm sure that some of the problems
2 at Topps would have been identified a lot sooner, and
3 probably would have been stopped a lot sooner than it
4 was rather than producing all the illnesses.

5 There will also be changes in the
6 establishment's HACCP plan when the establishment
7 makes changes because the enhanced profile will be
8 kept up to date, their system will identify those and
9 inspection personnel will also know about those
10 changes that go into the system and the profile so
11 that can be more easily monitored than it is today
12 with our current PBIS system.

13 Additionally, we'll focus on the
14 identification of vulnerabilities within the overall
15 food safety system. As I pointed out, the problem at
16 Topps was that their decisions were not supported,
17 and they had a faulty design of the program. So the
18 program did not work. They also had some execution
19 problems in not verifying their program was actually
20 working.

21 The new system will focus activities and
22 include the control points as Carol indicated and

1 this should be addressed in prerequisite programs and
2 sanitation SOPs in support of the hazard analysis.
3 It's going to focus on verification questions to
4 address the presence and appropriate implementation
5 of process controls. Once again, we're looking at
6 the capability of the process in terms of the whole
7 system. So we're evolving. Once again, it's not
8 something new. We're not doing something new. What
9 we're doing is we're evolving where we should be and
10 continuing on doing the procedures that we should be
11 doing to make it more consistent and uniform. So
12 this is going to help as far as consistency and
13 uniformity.

14 Receiving has been identified as a
15 potential vulnerable point as I indicated in my
16 example, and we're going to focus on verification
17 questions at that point including the use of purchase
18 specifications programs. We had the system in place
19 before, inspection personnel were known to look at
20 those purchase specification programs and could have
21 more easily identified potential issues with those
22 programs.

1 And then also we're going to focus
2 verification questions including some related to
3 whether the produce was properly marked for the
4 intended use. That also will bring more consistency
5 in looking at how the establishment puts down and
6 identifies what the intended use of that product is
7 and also has decisions associated with the design of
8 their program with the intended use in mind. We know
9 that a lot of companies have not done that. In the
10 case of Topps, they did not do that. So this will
11 also help improve.

12 And then the profile will include the
13 establishment's HACCP system that will allow review
14 to ensure that the food safety hazards are identified
15 and controlled.

16 So in summary, I just want to say that
17 again, as Dr. Raymond indicated, this is a work in
18 progress, and we certainly want to hear from you as
19 we evolve into the new Public Health Risk-Based
20 Inspection System. We think that the system that
21 we're designing will improve the consistency at the
22 in-plant level because it will be data driven,

1 science based and there will be a better
2 understanding by inspection personnel of the systems
3 approach. We will also ensure that OFO focuses the
4 inspection resources at those establishments,
5 producing those products identified by the expert
6 elicitation as having the highest risk to public
7 health, with the same goal and mission that we have
8 today, and that is to protect the consumer that eats
9 meat and poultry product. And as Carol indicated,
10 the system is resource neutral. Thank you.

11 MR. TYNAN: Okay. Thank you, Dr. Arnold.
12 Thank you, Dr. Dreyling.

13 I'll open it up for a couple of questions
14 from the Committee here, and then Mrs. Foreman has a
15 question, and then we'll go onto the next topic. And
16 I think Dr. Bratcher had his tent card up first.

17 DR. BRATCHER: A couple of questions,
18 Dr. Arnold, about Topps. What was the educational
19 background for the inspector that was in that plant?
20 Do you have any idea? And I assume that that was an
21 IIC on a patrol assignment? Were there any plants
22 added to that patrol assignment when we did the

1 method of assigned work? And, number two, what was
2 the educational background and the workload
3 measurement for the front line supervisor that was
4 over that CSI and then what was the educational
5 background for that front line supervisor which would
6 have been -- in the District Office?

7 DR. ARNOLD: Well, I unfortunately, because
8 I don't work for OFO any longer, I am not able to
9 answer those questions because in the Policy
10 Development Division, I develop policy. I don't ask
11 the individuals about their education and background.
12 That would certainly be for OFO to address and so I
13 don't know the answer to your question.

14 MR. TYNAN: Let's see if we can't find that
15 out so that when we get to the general discussion or
16 at least at some point when the Subcommittees get
17 together, that we have that information for you.

18 Mr. Covington, why don't we go to you next,
19 and then we'll come right down the table.

20 MR. COVINGTON: Thank you for the
21 presentations. Based on the presentations, there's
22 going to be quite a bit of data collected, and as

1 with all data collected, it's about the
2 interpretation of that data. How is FSIS going to
3 ensure that the questions that are asked are
4 comprehensive enough to understand that data and also
5 be able to correlate that to regulatory
6 noncompliance?

7 DR. DREYLING: I'll take that in two parts.
8 First the question in terms of comprehensiveness, we
9 are evaluating the questions and having FSIS experts
10 and having reviews such as our NACMPI Committee
11 looking at the questions to be sure that they are
12 comprehensive. We are going to be then analyzing
13 those questions through the Public Health Information
14 System and we're developing a special component of
15 that called predictive analytics which we'll be
16 monitoring consistently and looking for patterns, and
17 we have done analyses as we're going to get into the
18 next presentation that looks at the results of our
19 inspection activities and uses them to look at public
20 health outcomes such as *Salmonella* results. So we
21 are doing initial tests to look at relationships and
22 to identify how we should identify correlations.

1 And we're also going to be examining what
2 the proper thresholds should be. Should it be that
3 you should get one NR and we prompt you to look at
4 the vulnerable points or should it be several NRs or
5 repetitive NRs, and what would that number of
6 repetitive NRs be. So we are trying to carry out the
7 needed analyses right now to address those points.

8 MR. TYNAN: So, Mr. Covington, I think it
9 sounds as though some of the detail that you're
10 looking for will come in the next presentation.

11 Mr. Stromberg?

12 DR. STROMBERG: Thank you, Robert. My
13 question has to do more with the nuts and bolts of
14 how this new system is going to operate, and I'd like
15 to know when an inspector records a NR and enters it
16 into the system, how long is it going to be before
17 the for cause procedure is going to be generated?

18 DR. DREYLING: As soon as the NRs are
19 entered in the system, as soon as -- the inspector
20 has to update the computer. It will go into the
21 system, and the system will then prompt the inspector
22 that they will have to complete this for cause

1 procedure, and we will be determining a time window
2 in which they need to complete that procedure, that
3 for cause procedure, and we will determine that for
4 each of the specific product categories, but I think
5 it will be a very short time period because we want
6 it to be a follow up to a problem that was observed
7 in the establishment.

8 DR. STROMBERG: Thank you.

9 MR. TYNAN: Maybe we can go into a little
10 bit more detail on that when we get to the full
11 discussion. Dr. Harris?

12 DR. HARRIS: Thanks. Joe Harris. A
13 question about the -- as you went through the case
14 studies, it occurred to me that for years now it's
15 been the Agency's contention publicly at least, and I
16 think in practice as well, that the in-plant
17 inspectors are not trained and not their
18 responsibility to evaluate the adequacy of various
19 programs and, in fact, there was a lot of
20 justification behind creating the EIAO group and the
21 four weeks of intensive training that they go
22 through.

1 As I was listening to the presentation on
2 the case studies, it sounded a lot like now that
3 burden is going to be shifted to the in-plant
4 inspectors to consider adequacy of programs, whether
5 or not those programs are being appropriately
6 designed and implemented, and my question is what is
7 the Agency's plans for insuring that these inspectors
8 are trained to make those kinds of determinations?
9 It's a lot of investment in training those EIAOs for
10 four weeks at a time. Is it going to be that level
11 of training for all inspectors?

12 DR. ARNOLD: Well, if I gave that
13 impression, I apologize. We are still going to have
14 the EIAOs making the determinations associated with
15 the design. What the in-plant IIC is going to be
16 doing as I indicated is just answering a simple
17 question, yes or no, and they're going to just be
18 asking, they have a prerequisite program, we know
19 that in the profile, and are they implementing it,
20 yes or no. We're not going to actually be looking at
21 the design of that program. We're going to be
22 looking at are they actually implementing the design,

1 and now a lot of inspection personnel are not looking
2 at that.

3 MR. TYNAN: Okay. I'm going to ask
4 Mr. Smith, I think he had a comment, and maybe --
5 okay. We can come back to that again in the general
6 discussion. Mr. Kowalczyk?

7 MR. KOWALCYK: Thank you. I have a couple
8 of questions related to this process versus current
9 process and some of the language in your presentation
10 as well as the technical report that's in our
11 materials.

12 You talk about on your second slide
13 vulnerable points in aggregate. How should we
14 interpret this new system with respect to things such
15 as zero performance standards for fecal contamination
16 in poultry slaughter for example? I -- a little bit
17 reconciled that this language in the aggregate versus
18 the zero performance standard. How is that impacted
19 in this program?

20 DR. ARNOLD: Well, the difference is the
21 one has to do with a CCP and this has to do with
22 control points where, as I said, we're evolving into

1 more enhancement into the HACCP system and looking at
2 the system as a whole. Right now our inspection
3 looks at points, a point here, a point there, and
4 we're not very good at connecting those dots. So
5 this is actually going to help the inspector to look
6 at the overall system by prompting them to look at
7 specific control points that the company has
8 identified are important, and so that's where the
9 difference is. It's not that we're not going to
10 still be doing HACCP and the procedures looking at
11 critical control points and evaluating critical
12 control points. We're just going to be taking more
13 of a systemic approach and looking at the system and
14 the capability of that process to actually produce a
15 safe product.

16 MR. KOWALCYK: And another follow-up
17 question, in the documentation of the documentation
18 and technical plans both in the processing and
19 poultry slaughter. There's a discussion about
20 sufficient evidence that there's loss of control. I
21 think it would be unfair to ask you for that
22 definition now, but is the Agency doing its part in

1 due diligence in determining what would be identified
2 as sufficient evidence? To me, it seems like there's
3 a gray area there that would be open to
4 interpretation and it seems like the way the system
5 is designed, you want to avoid that, and I'd like to
6 know a little bit more about what the Agency is doing
7 at getting the definition that will be transparent to
8 stakeholders and that info could be provided.

9 DR. ARNOLD: Well, the reason that the
10 system is designed with multiple questions is that's
11 how we get the aggregate. We're looking at multiple
12 control points throughout the system. I know this is
13 a shift from what we've been doing. We're going,
14 like I said, back to more of a systems approach and
15 looking at the entire process. So when the inspector
16 is looking at those vulnerable points and identifies,
17 no, they didn't do this at this vulnerable point and,
18 no, they didn't do this at this vulnerable point and,
19 no, they didn't do this at this vulnerable point, and
20 we have multiple occurrences of that, that system is
21 no longer in control and we have reason to be
22 concerned about the system.

1 MR. KOWALCYK: Okay. Would --

2 MR. TYNAN: Michael, I don't mean to
3 interrupt. Okay. It's got to be a quick question so
4 we can get everybody through and get to the next
5 topic.

6 MR. KOWALCYK: I think it's important to be
7 said that I think it's important to look at the
8 entire system and that there's a lot of merit behind
9 that but there are, and even in your literature
10 review, there are some critical points in the system
11 that have greater impact on public health and, you
12 know, in order to -- some results that are mixed.

13 Now if the Agency wants to take an approach
14 that is aimed at improving public health, I would
15 hope that the Agency is very clear with stakeholders
16 as to what they would consider sufficient evidence.
17 It can be one point in the system, but if that point
18 is critical, that should outweigh maybe two or three
19 other points if there's mixed evidence as to the
20 efficacy of those interventions. And in the
21 documents that I've seen, I haven't seen any clear
22 distinction or any weighting that would be sensitive

1 to that public health impact, and I just want to be
2 on the record that I recommend the Agency look into
3 that.

4 MR. TYNAN: Thank you, Michael. Carol, did
5 you want to make a comment?

6 DR. MACZKA: I do think that we have tried
7 to identify those points that we consider most
8 vulnerable, and not all the points are equally
9 vulnerable. So based upon the scientific literature,
10 we have identified the vulnerable points. And also
11 about whether there's sufficient evidence, I think
12 when we get to Dr. Travis presentation, I think the
13 criteria that puts you into LOI 1, 2 and 3, I'd like
14 to see what your reaction is to whether you would
15 agree with that criteria because we think it is very
16 transparent as to why you end up in one of those
17 three categories.

18 MR. TYNAN: Okay. Dr. Negron?

19 DR. NEGRON-BRAVO: Yes, I would like to add
20 just that HACCP has always been like a systematic
21 approach, but I think the importance of the
22 prerequisite program has never been precise enough in

1 the -- so I'm just asking is the Agency moving toward
2 doing legislation or be more strict to the monitoring
3 and the verification of those significant programs
4 that now we are beginning to -- vulnerable points
5 maybe throughout the system?

6 MR. TYNAN: Mr. Smith, do you want to
7 respond to that?

8 MR. SMITH: Yes. We want to make clear
9 that the actual HACCP rule put that into effect back
10 in 1996, that the hazard analysis that we talked
11 about here requires that all these decisions be
12 documented. And what we're asking inspectors now to
13 do is go back and see the evidence that these systems
14 are in place to support this hazard analysis. So
15 this is not new. It's focusing them on that as well
16 as recordkeeping and as well as CCP.

17 MR. TYNAN: Does that help, Dr. Negron?

18 DR. NEGRON-BRAVO: Well, I know this is not
19 new but it's not being done.

20 MR. TYNAN: Okay. I'm going to ask,
21 Mrs. Foreman, can you hear us? Did you have a
22 comment or a question at this point?

1 MS. TUCKER-FOREMAN: Well, not right now.
2 Thank you.

3 MR. TYNAN: Okay.

4 MS. TUCKER-FOREMAN: Can you hear me okay
5 now?

6 MR. TYNAN: Yes, excellent.

7 MS. TUCKER-FOREMAN: Okay. Thank you.

8 MR. TYNAN: Much improved. You called your
9 provider in the interim?

10 MS. TUCKER-FOREMAN: Yes.

11 MR. TYNAN: Okay. Mr. Painter, I'm going
12 to let you have the last word again.

13 MR. PAINTER: Yes. I'm going to start out
14 with page 4, more specifically slide number 8. It
15 talks about batter, breeding, solution and things of
16 that nature. I'm wondering -- my question is, does
17 that mean the Agency's going to get back into the
18 business of monitoring restricted ingredients such as
19 the phosphates and -- and then I want to move onto
20 the Topps situation, and although Topps, in my
21 opinion, had some culpability in the situation, that
22 resulted in the recall, in my opinion we're missing

1 the big picture here. The big picture here is the
2 fecal contamination came from the plant, and we have
3 these facilities that are running 300 something
4 cattle per minute, and it seems as though there's
5 been a lot of emphasis placed on education. And I
6 want to be clear that we have a lot of people such as
7 myself that are inspectors in the field that have
8 achieved a higher level of education versus a sixth
9 grade education. And it does not take a rocket
10 scientist to see fecal material provided the line is
11 not going at such a speed in which to do so.

12 MR. TYNAN: Okay. Thank you, Stan.

13 MR. PAINTER: What about the question
14 regarding the -- and the restricted ingredients?

15 MR. TYNAN: Okay. I apologize. In your
16 discussion, I may have forgotten what the question
17 was.

18 (Laughter.)

19 MR. PAINTER: I'm sorry. I didn't mean to
20 be so long-winded.

21 MR. SMITH: Well, we can -- again the HACCP
22 rule requires that a hazard analysis be done on each

1 step of the process and that's where that would be
2 analyzed and that then is getting into how the plant
3 either makes that a critical control point or says
4 it's not a hazard due to a prerequisite or a control
5 program, and that's what we're saying, then we would
6 look at in performing the inspection. So that is
7 covered.

8 MR. TYNAN: We can have further
9 discussions, Stan, if you have other questions when
10 we get into the full group.

11 We're at that point, we've talked a little
12 bit about the in-plant inspection activities and now
13 what we'd like to do is talk about a slightly
14 different aspect of the concept which is across
15 plants, and I have Dr. Curtis Travis. He's a
16 consultant with Science Applications International
17 Corporation. And he has a two-part presentation. We
18 broke it in parts to allow a little bit of
19 discussion. So the first part will be the overall
20 concept and then he has a second part that will talk
21 a little bit about attribution. So we're going to
22 take the first part first, and take a little bit of

1 break for questions and then we'll come back to do
2 the attribution. Dr. Travis.

3 DR. TRAVIS: Thank you very much. I'm
4 going to talk about the across establishment ranking
5 concept for processing and slaughter.

6 The goals of the ranking algorithm are to
7 focus FSIS resources to ensure food safety systems
8 are working efficiently. There's sort of two
9 components to it. One's the across establishment
10 algorithm which is to focus on establishments with
11 evidence of a lack of process control, and then the
12 within establishments. The component of the ranking
13 algorithm is to focus on the most vulnerable food
14 safety system areas. And one of the goals was to
15 remain resource neutral.

16 This is a large overview. The analogy here
17 is what the sort of triage system used in critical
18 medical situations where you're separating patients
19 into those that are about to die, need some medical
20 attention or fine. We're trying to triage
21 establishments into three levels of inspection.
22 Those that would receive routine levels of

1 inspection, those that would get more attention but
2 not critical attention, and those that are going to
3 receive in-depth inspection. That's the general
4 concept is triage plants and that triage would
5 determine the level of inspection.

6 The secondary concept that we're going to
7 discuss is what criteria do you use for triaging.
8 That's really the meat of the triage system.

9 Risk has two components, magnitude and
10 hazard. And risk formally is defined as the product
11 of magnitude times hazard. Magnitude is like the
12 number of illnesses that might occur and hazard is
13 probability of illness.

14 Both components help FSIS to better focus
15 its inspection activities. We're using attribution
16 as the measure of magnitude which the second part of
17 my talk is about attribution which is sort of which
18 percentage of illness comes from different food
19 products. It helps us focus on the pathogen product
20 pairs that most contribute to human disease. And the
21 hazard component which is the effectiveness of
22 process control, that let's you focus on

1 establishments with less than optimal food safety
2 process control systems.

3 This is a picture that shows those two
4 components. It says that establishment public health
5 risk ranking is basically a function of two different
6 components. One is the magnitude of the public
7 health impact which we're going to estimate as the
8 establishment volume divided by the national volume.
9 That's just a fraction of volume for a plant, what
10 fraction of the total national volume for a product
11 that that plant is producing times the public health
12 attribution. And this gives you an indication of the
13 fraction of human disease an establishment might
14 cause if a contamination event were to occur.

15 The hazard component is we're evaluating
16 using indicators of process control and there are a
17 couple of different kinds of indicators. One is
18 measurements over time, like verification testing or
19 health based NRs, and the other is episodic measures
20 like FSAs or recalls or enforcements. Those only
21 occur once in a while and maybe randomly. And
22 they're indications of how well the establishment is

1 maintaining process control.

2 Okay. So we want to sort the
3 establishments into three levels of inspection. The
4 LOI 3 is going to be based on specific criteria. LOI
5 1 is based on specific criteria that we're going to
6 define here in a second. And then the remaining ones
7 are going to be in LOI 2. You can define criteria
8 for that also but basically that's the easy one.
9 Once you get the other two, the high and the low,
10 you've got the ones in the middle.

11 Now in terms of the level of inspection
12 that will be focused towards these different groups.
13 And LOI 1 is the one that will receive routine
14 inspection. So you're going to maintain routine in-
15 plant inspection and you'll have these focused
16 verification activities prompted by in plant results
17 to identify and prevent possible problems. These are
18 the for cause prompts.

19 In LOI 2, you're going to focus
20 verification activities at the vulnerable points to
21 identify whether there is a food safety system
22 problem. You would be using both directed procedures

1 and for cause prompts, and I'll talk about these two
2 in the next slide.

3 In LOI 3, this is where we have focused in
4 plant verification activities. They will be getting
5 both directed procedures and for cause prompts, and
6 the idea here is to deploy the highly trained
7 resources for in depth assessments and verification.
8 This is where you would get your immediate -- well,
9 fairly rapid food safety assessments at the facility.

10 The food safety assessment component here
11 is fairly important because the OIG and FSIS both
12 recognize that food safety assessments are one of the
13 best tools we have for identifying whether plants
14 have effective food safety control systems in place.
15 And so we would want to do food safety assessments at
16 the LOI 3 plants and also some of the LOI 2 plants.

17 Okay. This is the different procedures.
18 You've seen this graphic several times. It basically
19 says we have for cause procedures which would be when
20 you get a NR, then the inspector will be prompted to
21 go upstream and look at the vulnerable points.

22 And the other way is directed procedures

1 which is in the LOI 2 and LOI 3 establishments. Here
2 inspectors can be prompted to look at vulnerable
3 points even though there wasn't any prompt, a NR may
4 not have occurred but they'll still be on a random
5 basis told to look at various vulnerable points.

6 This is a slide that Carol also showed.
7 It's just again the conceptual approach to the
8 ranking. We start with all of the establishments.
9 We're going to separate them into three levels of
10 inspection based on process control effectiveness.

11 Then within LOI 2, we're going to rank them
12 based on public health impact. The reason that we
13 don't rank the other two categories with regard to
14 public health impact is that LOI 3 are all going to
15 get focused attention. So there isn't any need to
16 rank them. And LOI 1 is receiving your routine
17 inspection activities. So again, there isn't a need
18 to rank it. So we're only ranking the ones in the
19 middle with respect to public health impact.

20 Now we're going to look at the criteria
21 that are used. One of the things that I want to
22 emphasize is that these criteria aren't carved in

1 stone. FSIS is looking for your input on them,
2 suggestions as to whether some other ones may be
3 added or some of these might be deleted. This is
4 sort of an intuitive question. I mean you're asking
5 yourself, what kind of criteria would I want to use
6 to judge if a system needs more inspection, or to
7 judge if their food safety control systems aren't
8 functioning optimally.

9 So these are the criteria that we have.
10 One is a positive *E. coli* 0157 verification test in
11 the last month. One other question we want input on
12 is what time period should we be using. Should we go
13 back to the last month, last two months, last years?
14 What kind of time period should we be considering?
15 The reasoning here was that you don't want to go back
16 too far because a plant may have had a condition in
17 the past, a year ago, corrected everything and be
18 working fine now and they don't want to be penalized
19 because of that right now. So you don't want too
20 long of a time window.

21 Number two, a positive *Lm*, *Salmonella* or *E.*
22 *coli* in RTE products in the past month.

1 Establishment in *Salmonella* Category III, those are
2 the ones with the highest percent positive *Salmonella*
3 on the *Salmonella* verification testing. An
4 establishment that is linked to a disease outbreak.
5 An establishment that has sustained structural damage
6 due to a natural disaster.

7 An establishment that's in the STEPS
8 database more than once in the past 120 days, the
9 shipment of a specified risk material, an enforcement
10 action or adulterated or misbranded product shipped.
11 This includes recalls. The highest percentile of
12 health-related NRs, for instance, SRMs, insanitary
13 dressing, zero tolerance, residue, over some time
14 period to be determined. Again, this is over like a
15 month, over two months, over a week.

16 The use of NRs justified through predictive
17 analysis, that's going to be my next slide. I'll
18 talk about that. And a repetitive *Salmonella*
19 serotype of human health concern or PFGE match. I
20 point out that this criteria is not currently being
21 applied. FSIS is collecting data for this particular
22 criteria through part of the *Salmonella* Initiative

1 Program.

2 FSIS employed Carnegie Mellon University to
3 do a variety of statistical analyses of the data.
4 That whole suite of analyses was called predictive
5 analysis. They want to use the FSIS data. They want
6 to mine it and figure out which subsets of it could
7 be used to predict the occurrence of events before
8 they occur.

9 So one of the questions that they asked was
10 if a NR occurs, what is the increased probability of
11 a positive *Salmonella* in the next two weeks? Or is
12 there any?

13 This graph on the right shows their
14 analysis and there's three different graphs there.
15 The solid one at the bottom was using all NRs. The
16 middle one was, yeah, that one, was NRs that were
17 based on the industry coalition in response to the
18 last RBI, proposed a set of NRs that they considered
19 related to public health. And then there was a FSIS
20 proposed list which we call Type 3 NRs which, out
21 front, there was a list of all of the NRs. It was on
22 a sheet, and the FSIS group had split them into four

1 groups that they weighted as 0 weight, 1, 2 and 3.
2 Three was the highest. It was clearly related to
3 public health. That's the group that we're using,
4 and this is the group that CMU did their analysis on.

5 So they looked at these three different
6 groups, the public health related NRs that FSIS has
7 proposed, the public health related NRs that the
8 industry coalition had proposed and all NRs. And
9 asked the question, if a NR occurs, is there an
10 increased probability that *Salmonella* will occur in
11 the next two weeks?

12 And the graph shows that this is your
13 looking back window, at the bottom down here. So it
14 says 7 days, 14 days, that's when you're looking for
15 your NRs. So you're saying if a NR occurs in 7 days,
16 then I'm going to look forward in the next 2 weeks
17 and predict if there's an increased probability of
18 *Salmonella*. And you can see that all three of these
19 measures of NRs predicted a higher probability of the
20 occurrence of *Salmonella* for a plant that had had one
21 of these NRs versus a plant that didn't. And if it
22 was one of the FSIS NRs, it was probably about 3

1 times higher. The industry coalition NRs had a
2 probability of about 2.3 times higher. But even
3 using all NRs, the probability was about 1.9 times
4 higher.

5 The differences between them are
6 statistically significant as you can see because
7 their error bars don't overlap and they're all
8 statistically greater than one which would be an
9 equal chance of having the *Salmonella* or not having
10 *Salmonella*.

11 Now as your window goes out, I mean you
12 take a longer window on the NRs, moving backwards
13 like 14 days, 28 days, 56 days, the probability has
14 come down, but they all stay above 1, meaning that
15 NRs are a predictor of the occurrence of *Salmonella*
16 in the next two weeks.

17 So this is one of our justifications for
18 including NRs.

19 Okay. Now we move to LOI 1 which is the
20 routine level of inspection. Here we are requiring
21 that establishments must satisfy all of these
22 criteria. So we want it to be particularly

1 efficient. It has to satisfy all of these criteria
2 to get into LOI 1.

3 Back when we were doing LOI 3, which was
4 the focused inspection, all we required was that one
5 of those things occurred. If one of those things
6 occurred, it went up to the top. Here we want them
7 all to occur to get into the bottom.

8 So one is that no positive *E. coli* 0157 in
9 the past 120 days or until the establishment is
10 determined *E. coli* free from follow up sampling and
11 120 days is based on the approximate time it would
12 require to do the 16 follow up *E. coli* samples.

13 No positive *Listeria*, *Salmonella* or *E. coli*
14 0157 in RTE products in the past 120 days.

15 No enforcement action in the past four
16 month or adulterated or misbranded products in
17 commerce in the past four months and again this
18 includes recalls.

19 Establishment is not linked to a disease
20 outbreak in the six months. A lower percentile of
21 *Salmonella* percent positives on the most recent
22 sample test, unannounced sampling or other *Salmonella*

1 testing programs.

2 We haven't set what percentile we might
3 use. We need some input on that. But in some
4 preliminary runs, we were using 70 percentile. So as
5 long as you were in the lower 70 percentile, you
6 could get into a routine level of inspection.

7 And the next one is lower percentile of
8 public health NR rates over a period of time to be
9 determined, same thing, over a month. That's the
10 period of time that we're using now. And again, the
11 use of NRs justified through the predictive analysis
12 that Carnegie Mellon University performed.

13 A lower percentile on the most recent FSA
14 score. This criteria isn't currently being used but
15 it will be used as more FSAs are performed. FSIS is
16 developing a scoring system for these so that you
17 will have a numerical score assigned to each FSA and
18 we're looking to say that you need to be in the lower
19 percentile on this score in order to be in the
20 routine level of inspection.

21 A lower percentile of scores on focused in-
22 plant verification questions, the vulnerable points.

1 Now this is part of the second part of the algorithm
2 of looking at in-plant inspections and focusing on
3 the vulnerable points and having inspectors ask
4 questions and get answers. Those will be scored and
5 based on the scores for those, that will also be
6 feeding back into the first part of the algorithm
7 which is across the plant prioritization. So we'll
8 get real time results from inspectors looking at the
9 establishment and asking questions about food safety
10 controls at vulnerable points and those will be fed
11 back into the system to help with prioritization.
12 That's not currently being done but it will be done.

13 And the lower percentile of *Salmonella*
14 serotypes of human health concern and PFGE matches.
15 This comes about because not all *Salmonella* cause
16 disease in an equally efficient manner. The
17 different serotypes cause more disease and also
18 different serotypes occur more often with certain
19 food products. So we want to actually take that into
20 account and FSIS is now collecting serotype data on
21 *Salmonella* in the products that FSIS inspects, and
22 that will be fed back into the system also.

1 Now we have the middle which is focused
2 inspection, LOI 2, which is establishments that
3 aren't in either 1 or 3. You can stop right there if
4 you wanted to and say, okay, it's everything that we
5 haven't defined, but we'll talk about what some of
6 those criteria are.

7 One is an *E. coli* positive within the last
8 120 days or still undergoing follow-up sampling, for
9 which a FSA has been completed. Another is a
10 positive *Listeria*, *Salmonella* or *E. coli* O157 sample
11 within the last four months for which a FSA has been
12 completed. The reason that last tag line is on
13 there, for which a FSA has been completed, because if
14 it hadn't been completed, it would be up in Category
15 3. We don't want the establishments to stay in
16 Category 3. So once they get into Category 3, you're
17 going to have a FSA and they're going to have to
18 correct whatever problems they find. I mean either
19 they'll be fined in which case they're going to move
20 down to either 1 or 2, or they will correct the
21 problems and move down to 1 or 2. So in order to get
22 into level 2, the FSA has to have been completed.

1 An enforcement action or adulterated or
2 misbranded product shipped, this captures recalls, in
3 the past four months, for which a FSA has been
4 completed and corrective actions have been verified.
5 That goes with the top ones, too. Not only does the
6 FSA have to be completed, but the corrective actions
7 have to be verified.

8 Based on the past history of *Salmonella*
9 testing, they're above the lower percentile cut point
10 for LOI 1 for percent positives on the most recent
11 sample set, unannounced sampling or other *Salmonella*
12 testing programs. Or NR rates similar, they're above
13 the LOI 1 cut point and below the cut point for the
14 NR to get into LOI 3. It's in between those two.

15 In the STEPS database more than once in the
16 past 120 days, for which a FSA has been completed.
17 Above the lower percentile cut point on the most
18 recent FSA score; above the lower percentile cut
19 point for LOI 1 of scores on focused in-plant
20 verification questions, the vulnerable points; above
21 the lower percentile cut point for *Salmonella*
22 serotypes and an establishment's been confirmed to be

1 the cause of an outbreak in the past six months, for
2 which a FSA has been completed.

3 Okay. That was a long list of criteria for
4 LOI 2 but it's really just a simple concept. LOI 3
5 has a fairly short list of criteria to get into that.
6 LOI 1 which is the routine level of inspection also
7 has some fairly clear cut criteria to get into it,
8 and everything else goes into LOI 2.

9 Now within LOI 2, FSIS has proposed to rank
10 the establishments based on a measure of public
11 health impact, and this is going to explain that
12 measure. Basically it's the fractional volume times
13 attribution for the product and pathogen that the
14 establishment produces. The fractional volume is
15 simply the volume that the plant is producing divided
16 by the total volume of that product being produced.
17 And it's obviously product specific. So, if you were
18 looking at broilers, you'd want to know what's the
19 volume of broilers that this facility produces and
20 then you would divide it by the total volume of
21 broilers being produced, and you'd get that this
22 facility is producing one percent of broilers. That

1 would be your fractional volume.

2 Then you have an attribution for a pathogen
3 product class, like the ground beef consumption
4 causes 34 percent of all *E. coli* 0157 illness. We're
5 going to talk about that next, how we come up with
6 attribution numbers.

7 The public health impact is then the
8 fractional volume which is the V_i divided by
9 summation V_i . That's just the fractional volume of
10 production for the plant times the attribution.

11 If an establishment produces more than one
12 product with the same pathogen of concern, we select
13 the maximum potential public health impact.

14 Then we are proposing to sort the
15 establishments into one of four pathogen categories,
16 *Salmonella*, *Listeria*, *E. coli* and *Campylobacter*, and
17 a fifth category for plants that we don't have
18 pathogen results for.

19 Now that's already going to be done earlier
20 on because when we were looking at the beginning part
21 of this ranking algorithm, we were taking fractional
22 volume times attribution, attributions for a specific

1 pathogen and product. So in order to perform that
2 part, we've got them separated into categories in
3 terms of *Salmonella*, *Listeria*, *E. coli* or
4 *Campylobacter*.

5 And then we're going to split these into a
6 lower and upper 50 percentile. So for *Salmonella*,
7 they would be split into a lower 50 percentile and
8 upper 50 percentile, et cetera.

9 And then depending on FSIS priorities, for
10 instance performance standards or seasonality or
11 focused on a particular product, these could be
12 amended or the focus changed. This just allows you
13 to have a slightly finer focus in your prioritization
14 for these middle categories. It can also be used to
15 help focus which establishments should be receiving
16 food safety assessments.

17 In summary, the public health risk-based
18 algorithm is designed to focus inspection on
19 establishments most needing attention, focus
20 inspection on the most vulnerable food safety system
21 areas, and verify that food safety systems are
22 working optimally.

1 The approach has multiple advantages.
2 Carol mentioned these earlier. One is transparency.
3 You don't have a bunch of formulas that you have to
4 compute. You don't have a bunch of numbers you have
5 to add up, things you multiply, whatever. You just
6 have these criteria. You can say, okay, in order to
7 get focused inspection, what kinds of things do I
8 think should be considered, like if they've had a
9 positive *E. coli*. So it's fairly transparent as to
10 what gets you into one category or another. It
11 focuses on plants with evidence of lack of process
12 control. These are plants like they've had an
13 outbreak associated with them. It indicates a lack
14 of process control. So, if they have higher
15 *Salmonella* levels, it indicates that they do not have
16 optimal process control.

17 It focuses on plants with high pathogen
18 levels. So, if you get high pathogen levels,
19 relative to other plants, producing the same product,
20 it's a fair comparison. Then you are going to get
21 more focused inspection attention.

22 All plants with health related problems,

1 recalls, outbreaks, enforcement actions, are ranked
2 high. That seems like that that would be what you
3 would want to do. If plants are having problems,
4 you'd be wanting to do a food safety assessment on
5 them. You'd be wanting to make more focused
6 inspection attention.

7 The categorization is independent of
8 production volume, that is separating the plants into
9 the three levels of inspection doesn't depend on
10 production volume. It only depends on these various
11 criteria that we put forth.

12 And the system is compatible with the FSIS
13 risk-based sampling programs.

14 The next steps, we want to apply the
15 algorithm to existing FSIS data. We've already done
16 that for poultry slaughter. I'm going to talk about
17 that tomorrow. We're in the process of doing it for
18 multiple other categories. We've actually finished
19 ground beef but haven't written it up yet. We're in
20 the process of writing that up, and we're doing
21 ground chicken, ground turkey. We're going to do all
22 of it. So that's where we are now, gathering that

1 data and doing the analysis.

2 We want to have external reviews of this
3 algorithm. That also is underway. All of this
4 material has been sent out to external reviewers and
5 they're reviewing it. We're, of course, getting your
6 input and public input. I emphasize that this
7 algorithm is only a proposal. We'd like input on the
8 various criteria, whether anything's been missed on
9 the time periods that we're considering and on the
10 cut points that we're considering.

11 And we want to also examine the
12 relationship to pathogen specific sampling programs.
13 I said that this algorithm was compatible with those
14 systems. It is but we want to check in detail what
15 they would predict should be at higher risk sampling
16 versus what we would predict using this algorithm and
17 see that there aren't any holes in this. Thank you.

18 MR. TYNAN: Okay. We're going to take a
19 couple -- just a couple of questions. Dr. Travis has
20 another portion that he wants to address regarding
21 the attribution but before we go onto that, we'll
22 take a couple of questions from the committee and

1 from Mrs. Foreman. Mrs. Foreman, can you hear us?
2 Did you have a question that you might want to pose
3 at this time? We'll start with you.

4 (No response.)

5 MR. TYNAN: Okay. We'll come back to
6 Mrs. Foreman. Mr. Elfering, did you have a question?

7 MR. ELFERING: Yes. Kevin Elfering. I
8 actually have a couple of questions. One is again
9 related to what are true public health issues, and
10 the SRM removal, you know, if it's a high, high
11 priority, I can still see doing the work but maybe it
12 shouldn't weigh so heavily on this particular issue
13 actually going from a LOI 1 or 2 and LOI 3 plant.

14 The other thing is, what is a public health
15 significance is some issues with non-Shiga toxin-
16 producing *E. coli* which have been found to contribute
17 to HUS. Is the Agency going to be looking at non-
18 Shiga toxin *E. colis* as well as just O157:H7?

19 The other question is on recalls, non-
20 public health recalls, will that have any impact on
21 categorization and it doesn't appear, or at least I
22 couldn't see it in here, the LOI 3 plants, there's no

1 discussion on recalls that I could see at all, and
2 maybe I just missed it but the LOI 1, if it's a non-
3 public health issued recall, would they have changed
4 categories?

5 And then I have one final question and I'll
6 let Dr. Raymond think about this one. Does this fit
7 your vision when you rolled this out to us initially,
8 does this fit your vision for risk-based inspection
9 in a LOI 1 plant and you're still maintaining routine
10 inspections or is there going to be less inspection
11 in those particular facilities?

12 DR. RAYMOND: We'll go with the last
13 question first. There won't be less inspection at
14 the LOI 1s. At this point in time, the minimum level
15 of inspection we currently do would be maintained at
16 all plants. One of the reasons we can say this is
17 resource neutral is because the Level 3 plants will
18 be receiving those resources that we currently have
19 available, the FSAs, et cetera, the in-depth
20 verification testing, those things are done, they'll
21 just be focused more on those plants.

22 I'd like the comment on a couple of other

1 things if I could. Kevin said this twice now about
2 public health based risk inspection and why do SRMs
3 keep popping up. I mean, Kevin, I couldn't agree
4 with you more. The time and money and effort and
5 energy that we've spent on SRM removals since the cow
6 went down in the State of Washington, if we had spent
7 that much time and energy on *E. coli*, I don't think
8 we would have had the problem we had this summer.

9 Unfortunately, that is an issue that we
10 spent a lot of time on, and I will defend using SRMs
11 as one of the categories for popping a plant into a
12 Level 3, because if there should be SRMs, they really
13 truly are showing a total disregard for what the
14 business is all about. So they may be neglectful in
15 other areas as well. It's a very glaring error of
16 commission.

17 So I think we should leave it in there
18 because it indicates types of practice, admitting
19 that it's not a public health risk problem, but the
20 magnitude of *Salmonella* or *E. coli* and then the issue
21 you raised about the O157:H7 STECs, we haven't made
22 that decision but as yet, we certainly welcome the

1 input of this Committee or anybody else. We have had
2 a day meeting on that issue. We're taking a look at
3 whether or not those bugs should be declared
4 adulterants and zero tolerance for them as we did for
5 O157:H7, just so which ones on the STECs should we
6 declare. They're like *Salmonella*, they have varying
7 levels as we all know that have a big impact on human
8 health, but that is an issue that does need to be
9 addressed. Thank you for bringing that up in this
10 discussion.

11 MR. ELFERING: I guess I'd just like to
12 follow up on one thing with the SRMs again, and the
13 reason I bring it up is I really like to try to focus
14 and maybe I've been a HACCP geek for too long, and I
15 look at hazards that are reasonably likely to occur
16 but in the same breath, I believe that live
17 ammunition, stunting of livestock, is still being
18 utilized in some plants and there has been studies
19 showing that there's been brain emboli found in
20 cardiac heart muscle in those animals that have been
21 stunned with firearms and until that is prohibited,
22 then you're still not removing SRMs.

1 DR. TRAVIS: With regard to recalls, it
2 actually appears on slide 11, and it's under the
3 adulterated or misbranded products. It says it
4 captures recalls. So recalls is definitely a
5 criteria to get into LOI 3.

6 MR. TYNAN: HACCP geek. Is that a
7 scientific term, Kevin?

8 MR. ELFERING: Class 1.

9 MR. TYNAN: Okay.

10 MS. TUCKER-FOREMAN: This is Carol. I do
11 have a question if it's appropriate.

12 MR. TYNAN: Please go ahead.

13 MS. TUCKER-FOREMAN: Okay. I have first of
14 all Carnegie Mellon report, Dr. Travis, is that
15 available? I don't believe that I've ever seen that.

16 DR. TRAVIS: Yes, it's an appendix.

17 MS. TUCKER-FOREMAN: Which appendix is it
18 please?

19 DR. TRAVIS: E.

20 MR. TYNAN: E as in echo.

21 MS. TUCKER-FOREMAN: Thank you. I'm a
22 little surprised that you're asking us to come up

1 with an appropriate period of time for some of these
2 things. I would think that you have data relating to
3 an actual public health problem, for example, --
4 criteria. I don't see any evidence in the criteria
5 other than that there's been a link to an outbreak
6 that any of these specific provisions have any
7 relevant -- can be directly connected to a human
8 health illness, a human illness. How does that work?
9 The lower percentage of *Salmonella* percentage
10 positives can be assumed but are there any data that
11 show that, in fact, a plant that has a higher level
12 of *Salmonella* positives has had more public health
13 illnesses, human illnesses traced back to that plant?

14 DR. TRAVIS: Well, I'm not aware of it
15 being like that but what we're trying to do here is
16 to tie this to food safety control systems, and these
17 are indicators of effective food safety process
18 control. So a higher level of *Salmonella* is
19 definitely an indicator of not optimal food safety
20 process control systems.

21 MS. TUCKER-FOREMAN: Okay.

22 MS. TUCKER-FOREMAN: And there is a leap going from

1 the fact that if an establishment doesn't have
2 optimal food safety process control systems, that
3 they would cause a higher number of health impacts
4 but I think that that's a generally accepted
5 assumption that good process control lowers public
6 health impacts.

7 MS. TUCKER-FOREMAN: Okay. I agree with
8 you but I wanted to make the point that these are
9 assumptions, that we don't really have any scientific
10 hard numbers back up -- about process control just
11 before we get to the point where we all bow down and
12 worship at the alter process control, I think some of
13 the limitations and process control or acknowledge
14 limitation about process control should be mentioned.

15 I have a couple of follow up please. The
16 second one, my second question is about triage. You
17 started out here talking about the system of triage
18 and I think that generally appropriate, but the
19 triage system at some point, the doctor walks in and
20 says, that patient can't be saved. We are not going
21 to invest scarce resources in taking care of that
22 particular human being. They're DOA.

1 In fact, in this system, it's the DOA
2 patient that gets the most resources. It seems
3 completely contrary to the system of triage as I know
4 it. Is there any point where FSIS decides that plant
5 can't fix itself and we can't help it fix itself or
6 it requires far too many of our public resources to
7 fix that plant. I don't see that mentioned anywhere.

8 MR. TYNAN: Mrs. Foreman, I think there's a
9 couple of responses. Dr. Raymond, did you?

10 DR. RAYMOND: Yeah. Carol, having been
11 there on that side of the fence as a practicing
12 physician, I do know what you're referring to but the
13 plants for the great most part we'll see go to Level
14 3 and uses these greater resources, they're not DOA.
15 They're still producing meat and poultry products.
16 They went out there for consumption, and so therefore
17 the resources will be spent to help them become
18 better plants to move to a Level 2 than to a Level 1
19 plant so that the food products are safer. I would
20 consider this rehabilitation and physical therapy
21 rather than pulling the plug.

22 MS. TUCKER-FOREMAN: Well, I guess my

1 question to that is at what point do you determine
2 that, in fact, a plant doesn't deserve, and we've
3 been over this before, doesn't deserve this continued
4 investment of scarce public resources? Where is it
5 written that a plant that just doesn't make it gets
6 to stay in business?

7 DR. RAYMOND: And, of course, that's when
8 we do the food safety assessment to make that
9 determination. If that determination has been made,
10 then we would pull inspection services which
11 effectively suspends that plant from any production,
12 and if they wanted to come back up, they would have
13 to present a plant to us and we would watch them very
14 closely. But at some point in time, some of those
15 plants just simply close the doors as did Topps and
16 Ranchers this year.

17 MS. TUCKER-FOREMAN: Yeah. Okay. And I
18 still continue to find it a very basic flaw that we
19 continue to invest scarce public resources in keeping
20 marginal plants in business and I applaud your second
21 year of proposing that there be user fees for plants
22 that require more than the average investment of

1 those resources.

2 My third question is that all of these
3 standards are based on mysterious *Salmonella* or *E.*
4 *coli* 0157:H7. *Campylobacter* is the single most
5 common cause of acute bacterial gastroenteritis among
6 humans and yet it is not used anywhere in FSIS'
7 proposal as a standard by which to judge a plant. It
8 is most commonly associated with undercooked or raw
9 poultry. We're dealing with a poultry slaughter
10 proposal and there is no basis for making these --
11 *Campylobacter* doesn't figure in making judgments
12 about the level of inspection that plants get. Can
13 you tell me where --

14 MR. TYNAN: Dr. Maczka, do you have a
15 response to that?

16 DR. MACZKA: Yes. I do think that
17 Dr. Travis did mention that *Campylobacter* will be
18 used in LOI 2 and, too, as we collect more
19 information on *Campylobacter*, it will be used within
20 all of the levels, and I think if Dr. Engeljohn was
21 here, he would jump up and down saying that's so.

22 MR. TYNAN: Okay. Mrs. Foreman, if you

1 don't object, could you hold your next series of
2 questions until we have the open discussion. I have
3 -- I'm going to ask Dr. Dickson maybe to finish up
4 and Mr. Kowalczyk to maybe hold his question until we
5 get to the general comments.

6 MS. TUCKER-FOREMAN: That was the end of my
7 questions. Thank you.

8 MR. TYNAN: Okay. Thank you.

9 MR. DICKSON: Thank you. Just a quick
10 comment here. On your LOI 1 criteria, relating it to
11 establishments linked to disease outbreaks, I would
12 suggest that for consideration that you perhaps look
13 at longer term for the establishments, such as a
14 hypothetical establishment that may have been linked
15 to say three foodborne disease outbreaks in the last
16 five years. That might suggest that there is
17 something with that particular establishment that is
18 not necessarily routinely under control. That was
19 the only comment I really had on LOI 1.

20 MR. TYNAN: Okay. Thank you. And thank
21 you, Mr. Kowalczyk, for your holding your question.

22 I'm going to ask Dr. Travis to maybe get

1 into the attribution and perhaps we're a little bit
2 behind schedule. So, if you could address that topic
3 for us.

4 DR. TRAVIS: We can do this fairly rapidly.
5 Let's start on the next slide.

6 Attribution, the definition, a pathogen-
7 specific percent contribution of specific food items
8 to human disease. Examples, 63 percent of *Listeria*
9 illnesses are attributable to RTE products or 34
10 percent of *E. coli* illnesses are attributable to
11 ground beef. Okay. That's attribution.

12 The approaches to attribution, when we say
13 approaches, what do we mean? What we're trying to
14 estimate attribution? If we had exact numbers for
15 attribution, we wouldn't have to go through all of
16 this effort of gathering data and estimating it. We
17 don't have exact numbers and you should know that the
18 numbers change every year. So when you make an
19 estimate, you're just making an estimate in time.
20 The next year they might be slightly different. But
21 they're not changing hugely from year to year. They
22 don't gyrate all over the place. They're trends, you

1 know, the levels of a certain pathogen in produce may
2 be increasing over time but they don't jump to 100
3 percent and then down to 0 percent and back and
4 forth. They tend to change within ranges. So we're
5 trying to estimate something that's changing over
6 time, and we have limited data for estimating it.

7 So here are the approaches for estimating
8 attribution. One is risk assessments. So you can do
9 a risk assessment to estimate what fraction of human
10 illness comes from *Salmonella* in a product. That's
11 done quite often. I mean there are quite a few risk
12 assessments that try to do attribution. I mean
13 that's generally not the primary their primary aim,
14 but the secondary product of the risk assessment
15 would be an attribution estimate.

16 The difficulty with using those is that
17 they generally focus on a single product or process.
18 So they might be doing chicken broilers or they might
19 be doing ground beef, but we really need estimates
20 for all of the FSIS inspected products. And in
21 addition to that, we need estimates for the FDA
22 inspected products if we're going to estimate the

1 attribution across all food items.

2 So risk assessments are good in that
3 they're a focused attention on a particular food item
4 generally or a particular process, but they're
5 limited in that they usually only focus on a single
6 product.

7 Expert elicitation is another method that's
8 been widely used in estimating attribution. A
9 criticism of it is that it's based on perception of
10 experts and is not based on verifiable data, but
11 various experts and advisory committees have said
12 that it's often the best source of guidance when
13 other data are sparse. Now that sentence makes
14 sense. If you don't have any other way of estimating
15 it, you could use an expert opinion.

16 Disease outbreak data is another source for
17 estimating attribution. It's positive is it's real
18 illness data. It's negative is that it doesn't
19 include sporadic illnesses, and sporadic illnesses
20 represent the majority of illness cases.

21 Serotypes, particularly for *Salmonella* is
22 the method that's been proposed for doing

1 attribution, and it actually has been implemented in
2 several countries. Its drawback is that it's not
3 well established yet for use in attribution but FSIS
4 is working with CDC and FDA in developing a serotype
5 approach for *Salmonella*. That activity isn't
6 complete yet, but when it is, we possibly will be
7 able to incorporate that.

8 So now I'm going to go over the data that
9 we used to come up with our attribution estimates.
10 First is the expert elicitations. We're looking at
11 two different expert elicitations, the FSIS expert
12 elicitation which was 17 experts equally divided
13 among the public health community, industry and
14 academic institutions. Carol tells me it was 12
15 experts. Her first point was that 17 doesn't divide
16 equally into these. It seems to me we caught this
17 error once before and it crept back in. It was 12.
18 They started with 17 but they paired it down to 12 so
19 that they could equally divide them and have equal
20 representation in these various areas.

21 Resources for the Future also did an expert
22 elicitation that was completely independent of the

1 FSIS expert elicitation, had different experts and
2 was performed at a different period of time, though
3 both of them were published in 2007. They used 42
4 food safety experts and one of the positives about it
5 is that it included both FDA and FSIS food products.

6 Okay. The next slide, this is just to give
7 you an idea of what FSIS expert elicitation looked
8 like. It's hard to read all of that because it's a
9 bunch of numbers up there but basically there were 25
10 food types, if you count commercially sterile as one
11 of the food types, and they estimated this is percent
12 of disease that came from each one of these food
13 types. So they're estimating that for *Salmonella* 8.9
14 percent came from raw ground chicken.

15 Okay. Next. This is the RFF expert
16 elicitation. The first thing you notice is they
17 didn't have as many categories and that they were
18 also including FDA categories like seafood, produce,
19 breads, dairy, et cetera. So it has its strengths
20 and weaknesses. It doesn't get down as specific as
21 the FSIS expert elicitation on various food
22 categories of interest as FSIS but it also cuts

1 across broader categories. Okay.

2 This compares the two expert elicitations.
3 If we collapse the FSIS expert elicitation back into
4 these major categories. So how do you do that. Like
5 for instance, meat. Well, you just look at the 25
6 food categories that FSIS ranked or told you the
7 attribution for, and then you figure out which of
8 those were meat products and then you sum up the
9 percent attribution they had and so then you get a
10 percent attribution for meat, for Salmonella and
11 poultry, et cetera. And the other one is just
12 straight from the FSIS expert elicitation, and you
13 can see that they agree fairly well. Actually, when
14 I first did this, it was surprising, the agreement
15 between these two different independent expert
16 elicitations, that they would agree this well. Okay.

17 A third database is the outbreak database.
18 We used the database from the Center for Science in
19 the Public Interest. It's a database that covers the
20 years 1990 to 2004. There's now a 2005 component of
21 it out that we haven't analyzed yet, but we're in the
22 process of doing that. It covers 5,000 outbreaks.

1 It includes CDC outbreak data, and it has additional
2 data from state health departments, peer-reviewed
3 medical journals and verified medical reports.

4 And this is what their list looks like.
5 They also have both the FSIS products in broad
6 categories, just like Resources for the Future, and
7 they have the food categories that FDA also inspects.
8 Okay.

9 This is a comparison of all three studies.
10 Again, there's very good correspondence between the
11 three studies, and what I believe that this kind of a
12 study shows is that one, there was questions about
13 the FSIS expert elicitation in that these were only
14 experts, how do you know this data is any good?
15 Well, now you have the Resources for the Future
16 expert elicitation that produced almost identical
17 answers, and when you look at the outbreak data, it's
18 producing almost identical answers. So that is sort
19 of a verification of the FSIS expert elicitation.

20 The other way around, you say, well,
21 there's some questions about the Center for Science
22 in the Public Interest database, it's outbreak data

1 may not be everything, but now these two expert
2 elicitations rank up pretty well with the outbreak
3 data.

4 One of the things that I did over the
5 weekend, since there's been questions about this CDC
6 data versus the Center for Science in the Public
7 Interest database is I went back and looked at the
8 CDC data for the same years, that is 1990 to 2004,
9 and looked at these same categories as the Center for
10 Science in the Public Interest and again the expert
11 elicitations compare fairly well.

12 That was a preliminary analysis. We're
13 going to do a detailed analysis in which I
14 transferred all of the data from CDC into a
15 spreadsheet so that I can make sure that I'm
16 classifying every food item into the proper category.
17 It's not all that easy to do these kinds of
18 classifications as you start, like if you were doing
19 lemon meringue pie, do you put it in bakery goods, do
20 you put it in eggs or do you put it in multiple
21 ingredient products. So you want to be consistent in
22 however you do it when you're comparing the CDC data

1 with the Center for Science in the Public Interest,
2 but we are going to do that analysis and it will be
3 available. But the preliminary analysis shows very
4 good agreement between CDC data and Center for
5 Science in the Public Interest outbreak data.

6 Okay. Now this last piece is just an
7 application of attribution data to develop
8 performance objectives. It's fairly straightforward.
9 First off, you start with the CDC 2010 healthy people
10 objectives. They're listed in this box down there.
11 These are cases per 100,000, that is illnesses per
12 100,000. Well, it's actually positive cases per
13 100,000, that is verified cases of like for instance,
14 *Salmonella*. Okay. The bottom part, the one for
15 *Listeria* 2010 says .24 cases per 100,000 but by
16 executive order, .25 was to be met by FSIS by 2005.

17 Okay. Here's the outline of the approach
18 of developing a performance objective for FSIS. You
19 simply take the CDC 2010 public health goal and
20 multiply it by the fraction of illnesses attributable
21 to that FSIS product category. You multiply it by
22 the attribution.

1 Here's an example. The health-based
2 performance objectives for *Salmonella* on broilers is
3 6.8 cases per 100,000. If you use the attribution
4 number of 10 percent attributable to broilers, then
5 you get a health-based performance objective for FSIS
6 of *Salmonella* on broilers of 6.8 cases per 100,000.

7 The next one is for *E. coli*. The CDC
8 objective was 1 case per 100,000, multiply it by the
9 attribution of 34 percent attributable to ground
10 beef, you get .34 cases per 100,000.

11 And finally, *Listeria* in deli meats, the
12 CDC goal was .24 cases per 100,000, multiply it by
13 the attribution estimate of 57 percent attributable
14 to deli meats, we get .14 cases per 100,000.

15 This is the conclusion on attribution. The
16 best estimates for attribution come from a combined
17 approach of trying to use all of the available data.
18 We've attempted to do that. The best available data
19 sets right now are the two expert elicitations and
20 the Center for Science in the Public Interest
21 outbreak database. We're going to include the CDC
22 database. So we're doing that analysis right now.

1 And then we will have what I believe to be the best
2 available data for estimating attribution.

3 All of the available data appears to
4 produce very similar estimates of attribution. As
5 you can see in the one slide we had to compare,
6 they're very similar.

7 And, we can use attribution to link FSIS
8 performance objectives with the CDC public health
9 goals. Thank you.

10 MR. TYNAN: At this point, why don't we
11 take just a couple of clarifying questions regarding
12 attribution if there are any from the Committee. If
13 there are not some to clarify this particular
14 presentation, then what I'd like to do is open it up
15 for discussion of all the presentations this morning
16 regarding public health risk-based inspection in
17 processing and other slaughter activities.
18 Mr. Kowalczyk.

19 MR. KOWALCYK: Thank you. Dr. Travis, in
20 your work on this portion of the project, what would
21 your recommendation be to FSIS for reconciling the
22 fact that the data in the CSPI is only looking at

1 outbreak data as is CDC and even in the technical
2 appendix because, you know, a small fraction of total
3 foodborne disease is caused by outbreaks and in here
4 it says that the remainder of 5 to 15 percent and
5 then based on your analysis in the last few slides,
6 those numbers don't necessarily seem to really show
7 the whole picture? What would your recommendation be
8 to the Agency as well as this Committee as to what we
9 should acknowledge with respect to reconciling the
10 fact that we're not looking at sporadic illnesses?

11 DR. TRAVIS: Well, I would say that you can
12 only use the data that's available and the data we
13 have available is the outbreak data. CDC has done
14 some case control studies of some sporadic illness
15 and I've looked at all of their studies that are on
16 their website, but in general, they aren't usually
17 that helpful. If they're looking at *Salmonella*
18 illnesses, they'll trace it down to a couple of
19 products but not the kinds of breakdowns that we need
20 across all products. I mean to do attribution, you
21 really need a breakdown across both USDA products and
22 FDA products if you're going to get the percent

1 contribution to total disease.

2 And so the case control studies that CDC
3 has done haven't been that useful, and I mean it's
4 not a fault with their study, it's just very
5 difficult to do these kinds of studies. So we don't
6 have that kind of data.

7 The reassuring element of all this is that
8 when we use these three different approaches or
9 consider it two different, but that is expert
10 elicitation plus outbreak data, and we have two
11 expert elicitations and we're going to look at two
12 outbreak databases, they produce very similar
13 estimates. So you can say that the expert
14 elicitation should be accounting for sporadic
15 illnesses. That's using their expert judgment as to
16 what percentage of all illnesses, outbreaks and
17 sporadic, is caused by this food pathogen product
18 type.

19 Now you could say, well, their perception
20 is biased because they're more aware of outbreaks
21 than sporadic illnesses. That's just a weakness in
22 the data.

1 So my answer is I think this is the best we
2 can do. We've used the best available data to come
3 up with estimates. All four of the databases seem to
4 indicate very similar attribution estimates.

5 MR. TYNAN: Ms. Jones, did you have a
6 question?

7 MS. JONES: Yes, I do. Thank you. Cheryl
8 Jones, Morehouse School of Medicine. In looking at
9 all of the presentations for the morning, it's very
10 clear that with the new reporting system, well,
11 there's going to be an increase in the capability of
12 reporting which in I guess in my eye, it also could
13 be an increase in the number of public health
14 concerns because the data could actually be
15 considered more accurate. Or, on the other hand, it
16 could be just the opposite, that there are not as
17 many public health concerns as we may expect but I'm
18 going to go with the first one, that there will be an
19 increase in public health concerns.

20 What is in place to ensure that because of
21 -- questions about data entry, accuracy of data,
22 because it's new, what kind of quality checks are in

1 place to make sure that the data that's going into
2 this new system is in place? And then secondly, what
3 proactive type measures or considerations are going
4 to be taking place to indicate that there are
5 increased public health concerns with particular
6 establishments?

7 MR. TYNAN: Okay. I'm going to let,
8 Mr. Smith, I think you could address at least the
9 first question.

10 MR. SMITH: Well, as I said earlier, we are
11 going to use recognized ANSI standards on this. We
12 report in OMB business cases on a quarterly basis and
13 yearly basis on how we're progressing on these
14 systems. We are going to have performance and user
15 testing for every step of the way. As far as data
16 entry, we will try and program in edit checks and
17 then have to rely on our management control system
18 which we're also automating, supervisors are
19 overseeing inspection entry of data. When you get to
20 more yes or no and less objective answers, then your
21 data quality will also go up and you'll have, you
22 know, edit checks for that but that's pretty -- we're

1 going to build it again using the ANSI standards and
2 do performance and functional testing as we go along.

3 MR. TYNAN: Does that respond to your
4 question, Ms. Jones? If you'd like to think about
5 it, we'll come back to you again. Dr. Murinda, you
6 had a question, and is this clarifying for
7 attribution or we opening it up into --

8 DR. MURINDA: This is with regard to
9 attribution.

10 MR. TYNAN: Okay. Thank you.

11 DR. MURINDA: In particular, with regard to
12 the sources of data, the data that was collected by
13 CSPI, 1990 to 2005 outbreaks, in one of the
14 comparison tables that was showing the three studies,
15 it does appear like CSPI does not have any data for
16 *Listeria monocytogenes* covering beef, pork and
17 poultry. Is there an explanation that they don't
18 have data?

19 DR. TRAVIS: They had data. It didn't show
20 any outbreaks, any illnesses associated with those
21 food categories. I mean they're listing all of the
22 outbreaks and then they list the food categories.

1 They didn't have outbreak data for those food
2 categories.

3 DR. MURINDA: I guess it does appear like
4 the sources of data we abstract for use in our
5 outbreak data and other tools, we have to be
6 selective --

7 DR. TRAVIS: One of the difficulties with
8 both the *Listeria* and *E. coli*, of course, in looking
9 at the outbreak data or any data is that they don't
10 occur very often. So you have a pretty small
11 database. The number of cases each year is fairly
12 small. So almost -- well, at least with the CSPI
13 data, they were all classified as deli meats. When I
14 looked at the CDC data, they had a small number I
15 think that were poultry but it was a small number,
16 less than one percent. So it's not a big difference.

17 MR. TYNAN: Okay. Ms. Conti, do you have a
18 comment?

19 MS. CONTI: I just have a question about
20 the *Listeria* rate and how can you explain the drop?
21 Is that based on incidence, to the .24, the
22 estimates?

1 DR. TRAVIS: Oh, in the attribution.

2 MS. CONTI: Right.

3 MR. TYNAN: Yes.

4 MS. CONTI: Is that due to incidence or how
5 did you determine that?

6 DR. TRAVIS: Let me find that. That's the
7 2010 public health objective. That's where they want
8 to be is .24.

9 MS. CONTI: Okay. I thought somewhere when
10 I was reading through the appendix that it said that
11 that was met, that objective was met.

12 DR. CATLIN: Based on our testing, we are
13 very close to meeting that. I can't remember if
14 we're there or not, and I would let other people at
15 the Agency speak to some of the activities that are
16 going on these past two years, to be able to decrease
17 *Lm* events?

18 MR. TYNAN: And that's -- I should say for
19 purposes of the transcript, that's Dr. Michelle
20 Catlin.

21 MR. TYNAN: Do you have further that you
22 want to respond?

1 MR. SMITH: Well, again, we've had
2 rulemaking that went into effect in 2003 and the
3 Agency has put a lot of energy into following up with
4 that rulemaking for *Listeria monocytogenes* and that,
5 and we've focused our verification testing and follow
6 up, of course, if it is positive. So all of that in
7 combination is how we got an event.

8 MR. TYNAN: Okay. Mrs. Foreman, did you
9 have a question?

10 MS. TUCKER-FOREMAN: Yes. Can you hear me
11 okay?

12 MR. TYNAN: Yes, I think so.

13 MS. TUCKER-FOREMAN: Okay. I think the
14 biggest question that comes out of all of these is
15 that Dr. Travis acknowledges the data are limited.
16 There are no sporadic data included. The Agency has
17 decided to disregard the data that come from the
18 nation's number one public health agency, the Centers
19 for Disease Control. They looked on the website, but
20 there's been no communication within individual
21 researchers down at CDC. I think again that
22 *Campylobacter* was the single biggest cause of

1 bacterial gastroenteritis. We have enough high
2 quality data to go forward particularly with a
3 poultry slaughter program or do you run the risk that
4 -- on what is admittedly sparse data, will end up
5 with other -- negative consequences.

6 And let me tell you one of the reasons why
7 the results from these various studies may look so
8 similar. If you go back and look at the people who
9 participated in both the 2005 and 2007 FSIS
10 elicitations and the Resources for the Future expert
11 elicitations, you find that there is an overlap in
12 eight -- Furthermore -- people, RFF and FSIS expert
13 elicitations are listed as peer reviewers for FSIS'
14 risk assessment. There may be a lot of reasons why
15 you have some similarities here, and I don't think
16 that all of them pass a scientifically appropriate
17 standard.

18 MR. TYNAN: Okay. Dr. Travis, if you could
19 respond.

20 DR. TRAVIS: Well, first I'd say that, yes,
21 we acknowledge that the data on sporadic illnesses
22 isn't all that complete. I explained some of the

1 problems with getting that data. I don't think that
2 data set will ever be complete.

3 Second, we're not ignoring the CDC data.
4 We acknowledge that it is an outstanding source of
5 information. So we're now going back and estimating
6 attribution choosing the CDC data, and as I said, our
7 preliminary analysis indicates that it compares
8 favorably with the Center for Science in the Public
9 Interest.

10 Third, the Resources for the Future expert
11 elicitation had 35 experts. Therefore, it was a much
12 broader group. There was some overlap with the FSIS.
13 We're only using one of the FSIS expert elicitations
14 which is the 2007. I don't know what the number of
15 experts that overlapped on that was but -- so you can
16 have various reasons why the FSIS and the Resources
17 for the Future expert elicitation agreed. I mean one
18 would be that they had a few experts in common, but
19 they also have a lot of experts that weren't in
20 common.

21 The other would be they're all working from
22 the same information. For instance, they all looked

1 at the Center for Science in the Public Interest
2 database and said, oh, there's the attribution
3 estimates though they aren't actually published.
4 Their database just gives illnesses. You'd have to
5 go through a lot of work to compute the attributions.

6 But I mean the reassuring fact to me is
7 that the expert elicitations agree with the outbreak
8 data. Both the Center for Science in the Public
9 Interest and the CDC outbreak data, they're fairly
10 similar. So we have two different approaches
11 arriving at similar answers.

12 MS. TUCKER-FOREMAN: But you are comparing
13 apples and oranges. To compare these data which are
14 about illnesses to outbreaks is I think not
15 appropriate, number one, and number two, the CSPI
16 data, FSIS' outbreaks, were based on outbreaks. They
17 acknowledged that they -- outbreaks. So they show a
18 great deal of foodborne illness related to such
19 diseases as vibrio vulnificus because -- in groups -
20 - number of people got sick according to the CDC --
21 cases. There are far, far, more people that get
22 sick from *Campylobacter* than vibrio

1 vulnificus because -- much -- in groups. What number
2 of people got sick according to the CDC sporadic
3 cases? There are far, far, far more people who get
4 sick from *Campylobacter* than vibrio vulnificus but
5 it's only if you restrict yourself to the outbreak
6 data that you come up with this strange list of
7 problem -- does not relate what makes you sick. It's
8 not real. It doesn't make any difference about what
9 happens in the lives of the members of my
10 organization day in and day out. It's not telling
11 people and the USDA won't be helping people avoid
12 getting sick from Camphylobactiosis. And you told us
13 that -- because it's there. What I'm saying is I do
14 not believe that there are sufficient data to make a
15 commitment of enormous resources and -- given the
16 limited -- this data, it's important for FSIS to
17 refer this whole issue to the National Committee on
18 Microbiological Criteria for Food. There should be a
19 policy committee. They're the committee that looks
20 at the science, and they need to look at these and
21 say that these are okay to move forward on.

22 MR. TYNAN: Thank you, Mrs. Foreman. That

1 can be part of the recommendations of the
2 Subcommittee and the Committee as a whole. So we
3 certainly welcome that kind of a recommendation.

4 I have a couple of more questions here.
5 Let me go to Mr. Kowalczyk. I'll go to him and then
6 to Ms. Jones.

7 MR. KOWALCYK: Thank you. A couple
8 questions about reconciling the expert elicitations
9 again. What time period were the experts in the FSIS
10 were they asked to provide their estimates on and was
11 the questionnaire -- well, and also if you're aware
12 of the timeframe of the resources for future studies
13 and if they're consistent. And also, are the
14 questionnaires consistent because in the technical
15 report, there's actually an averaging across all
16 three studies, and I'm just struggling with
17 understanding whether or not that's the common
18 practice in this type of analysis or if it's
19 supported by precedence and it can be researched?

20 DR. TRAVIS: The expert elicitations, as
21 far as I'm aware, didn't have a time period. They
22 just asked them what's your opinion as to the percent

1 of disease that's coming from this food product for
2 *Salmonella*? So presumably that means now, the
3 present, when they were doing the studies. Since
4 both studies were published in the same year, they're
5 both sort of looking at approximately the same time
6 period. I don't think they were actually done let's
7 say within six months of each other. I don't know,
8 but they were both published in the same year. So
9 they're fairly contemporary estimates.

10 The outbreak database, we're looking over
11 14 years worth of data and getting an average. Now
12 another approach would be don't use so much of that
13 data because you could say that the old data isn't
14 what's happening now. That's another approach. We
15 could use that approach, and so only look at the last
16 five years of data. I wanted to do that with the CDC
17 data. I was going to look at how the estimates of
18 attribution might change if we broke it up into
19 different time periods or how they're evolving
20 through time. We could ask those questions. We
21 haven't asked them yet but our initial analysis was
22 to use 14 years worth of outbreak data. The reason

1 the smaller number of years you use, the more
2 variation and uncertainty you're going to get in the
3 numbers because some of these outbreaks, you look at
4 the outbreak data, you see like they have an illness.
5 They have three illnesses. They have five illnesses.
6 They have eight illnesses. And, then it says 780
7 illnesses. Those big illnesses can affect these
8 numbers quite a bit if you don't consider multiple
9 years.

10 MR. KOWALCYK: And my second part about
11 averaging across the studies, is there a precedent in
12 the research that recommends doing that?

13 DR. TRAVIS: Well, I'm not aware of any
14 other study that's done what we did. I think this is
15 the first time this has been done. People have been
16 struggling with the attribution issue for years.
17 There's been various public meetings on it. There
18 have been groups estimating attribution but I don't
19 think anybody has taken this approach of trying to
20 look across these various databases to come up with
21 estimates, and to compare what they're estimating.

22 And, oh, yes, we have subjected this

1 approach to peer review.

2 MR. KOWALCYK: When will the result of that
3 peer review be complete?

4 DR. MACZKA: Actually it has been completed
5 at this point, and we're in the process of examining
6 the comments -- let me correct myself. I'm wrong.
7 We had an initial period of just the attribution
8 section but now we're subjecting this whole report to
9 peer review. So we expect to even get even more
10 comments. So the initial peer review of the
11 attribution was about four experts. Now we expect to
12 get input from like about seven experts. So we'll
13 combine all of that and then advise accordingly.

14 MR. TYNAN: Is that it, Michael?

15 MR. KOWALCYK: Yeah, I'm assuming that the
16 result of that study will be put in the Federal
17 Register.

18 DR. MACZKA: Yes, we will prepare a comment
19 and response document. Every comment we get, we will
20 say what the comment is and then what our response
21 is, and it causes us to revise the report
22 accordingly. So that will be publicly available.

1 MR. TYNAN: Ms. Jones, you had a question
2 and then I'll come back to you, Mrs. Foreman, I think
3 you had a question as well.

4 MS. TUCKER-FOREMAN: I do. Thank you.

5 MS. JONES: Okay. Thank you. I think a
6 part of my question got lost, or my original
7 question. What I was asking about, I'm kind of
8 looking for future plans or kind of forward moving
9 because they were looking at data that is given, not
10 what's happening now but what about the future?
11 Because when you're looking at the new system, you're
12 actually having present establishments to be more
13 accurate in their filing quality control. So, if you
14 find something that you did not expect to find, will
15 this system be able to move forward? Will you be
16 able to make whatever modifications? Will you be
17 able to make whatever changes? How will that kind of
18 information be presented to the public in a manner
19 that they can understand and be able to act in a
20 positive way even if it looks like there are greater
21 public health concerns than there may necessarily be?
22 What -- are in place?

1 DR. CATLIN: This is Dr. Michelle Catlin.
2 The way that the system is currently being designed
3 with the whole PHIS, Public Health Information
4 System, is to design it to be as flexible as possible
5 so that as science evolves or knowledge evolves, it
6 can evolve with it. One of the aspects of it is it
7 will have the ability through predictive analytics to
8 be able to go in and flag and provide alerts if
9 things aren't being done in an establishment or are
10 being done too often in an establishment. So they'll
11 have those flags designed in there so that we can
12 then on the human side look at the flags and go back
13 and correct and make sure things are being done
14 correctly by establishments, do those corrections
15 that way. And then as information evolves, we will
16 be able to evolve the system as we go along.

17 MR. TYNAN: Does that respond to your
18 question, Ms. Jones? It sounded as though you had
19 another aspect of that?

20 MS. JONES: No, that's fine.

21 MR. TYNAN: Okay. Thank you. Other
22 questions? Ms. Foreman, did you have a comment or

1 question?

2 MS. TUCKER-FOREMAN: Yes. Again, I'm
3 surprised that the Agency is bringing to the
4 Committee without having a peer review. Dr. Travis
5 acknowledges that it is unique. No one has used the
6 numbers this way before including trying to average
7 outbreaks and expert elicitation and I just looked
8 again at three peer reviewers for the FSIS versus --
9 served on an FSIS expert elicitation panel. All of
10 them served or two of them of the three served on the
11 RFF group -- reviewers are from the same department
12 or the same university. If you're going to do a peer
13 review, it really has to be I think a little more
14 broad based than that. None of the peer reviewers
15 are human health experts. They are not medical
16 doctors, and I urge you to have some medical doctors
17 involved. According to RFF, 25 percent of the expert
18 elicitation panel really should be medical doctors,
19 and that was never true in either of the --
20 elicitations. So there is I think an unacceptable
21 bias in all of the documents that constantly overlap.
22 Again, I will tell the Committee as a

1 whole, I think the place to get this looked at is in
2 the National Advisory Committee on Microbiological
3 Criteria for Food.

4 MR. TYNAN: And we are certainly welcoming
5 that kind of a recommendation. I just had sort of a
6 sidebar conversation with Dr. Maczka and I think if
7 there are other peer reviewers that the Committee
8 would recommend to us, I think we would be willing to
9 entertain that and expand our peer review group. So
10 we're welcoming those kinds of comments as well.

11 Are there other burning questions from the
12 Committee at this particular point? A lot of
13 information this morning.

14 (No response.)

15 MR. TYNAN: Okay. So it's about 12:15, and
16 I think we're right on time with our agenda, which is
17 good. We have a lunch break of an hour. Before
18 everybody leaves, there are listings outside of the
19 local restaurants around. Many of them are on a
20 place called Wilson Boulevard, and as I understand
21 it, you have to go out the front of the hotel and
22 take a right and look around. It's back up toward

1 the Metro. So for anybody who came Metro, that's
2 where Wilson Boulevard is. It's up a couple of
3 blocks. We've only allowed for an hour. So we're
4 hoping that you'll come and go quickly.

5 We have this afternoon, two Subcommittees.
6 One of the Subcommittees will be chaired by
7 Mr. Elfering and just for purposes, Mr. Elfering's
8 group will be in this room and, Mrs. Foreman, you'll
9 be participating by phone with Mr. Elfering, but the
10 Committee is Cheryl Jones, Mark Schad, Dr. Rybolt,
11 Mr. Stromberg, Dr. Negron, Dr. Cutter if she's
12 available, and again Mrs. Foreman. So that's Kevin
13 Elfering's Committee. You'll be meeting here.

14 The other committee for issue number two
15 will be led by Dr. Dickson and Dr. Dickson's
16 Committee is Craig Henry, Ms. Conti, Ms. Grondahl,
17 Dr. Murinda, Mr. Covington, Dr. Harris and last but
18 not least, Mr. Kowalczyk. So that group will be
19 meeting on the other side of this partition. It will
20 be on this hallway but there should be a meeting room
21 over there.

22 We'll have a computer and a printer in each

1 room. We'll also have a person to help transcribe
2 the reports, and the FSIS people will distribute
3 themselves to help with the comments, the questions,
4 the issues that come up and so that there's a
5 substantive dialogue.

6 I would suggest to you as quickly as you
7 can get back from lunch, please do so. We've only
8 allowed for about 2 hours and 45 minutes for the
9 Subcommittee conversations and reports.

10 DR. CUTTER: Mr. Tynan, this is Catherine
11 Cutter from Penn State. Do we just dial back in at
12 this number to participate in the Subcommittee group
13 then?

14 MR. TYNAN: Absolutely, Dr. Cutter. Nice
15 you could join. And we'll have the questions for the
16 Subcommittee when they come back.

17 DR. CUTTER: Okay.

18 MR. TYNAN: And, Dr. Cutter, I e-mailed
19 them over the weekend. So you should have them
20 available to you on your computer.

21 (Whereupon, at 12:15 p.m., a lunch break
22 was taken.)

A-F-T-E-R-N-O-O-N S-E-S-S-I-O-N

(4:00 p.m.)

MR. TYNAN: Let's get started. Good afternoon.

We've had some lively discussions with our Subcommittees on the two issues that we presented today, and as I mentioned earlier, unlike previous meetings, we're doing report outs individually. So we had a Subcommittee discussion and now we're going to do the report outs for those discussions. I would say probably both Chairpersons will probably want to take a little time tonight or maybe in the morning to kind of clean up their reports if that's necessary and we'll make those the final. But we will sort of come to conclusion on them tonight.

So with that, I'm going to introduce again Mr. Kevin Elfering, and Mr. Elfering was working on the public health attribution and volume question. So, with that, Kevin, if I could impose on you to -- ah-hah.

MR. ELFERING: Dr. Raymond was hoping you were going to say I should clean up my act.

1 (Laughter.)

2 MR. ELFERING: Well, actually, first of all,
3 I'd like to thank our Subcommittee, Cheryl Jones, Mark
4 Schad, Michael Rybolt, Stan Stromberg and Edna Bravo,
5 and also Catherine Cutter and Carol Tucker-Foreman,
6 who were with us by telephone. I'd also like to thank
7 Ellyn Blumberg with FSIS and also the FSIS technical
8 people that were able to help us go through some of
9 this information, and also the industry people that
10 participated and the consumer groups and really
11 everyone who participated. Everyone had some valuable
12 information and I think we have come up with a good
13 report, although I'm sure that it will have some
14 modification eventually.

15 I was told though by Dr. Dickson that they
16 had a lot more questions and they finished earlier
17 than we did. So I don't know if that has any
18 correlation with anything at all.

19 The issue is public health attribution and
20 volume, and the first question is what recommendations
21 does the Committee have regarding enhancing
22 methodology and data sources used by FSIS to calculate

1 and use public health attribution?

2 To be sure FSIS actions contribute to
3 reducing foodborne illness, the Committee recommends
4 that before moving ahead on the new inspection system,
5 FSIS acquire more robust data on the relationship
6 between specific foods and illnesses attributed to a
7 particular pathogens. FSIS should have sufficient
8 data on *Campylobacter* to establish a performance
9 standard. The Agency should consult with CDC on the
10 best way to factor into the database the impact of
11 sporadic illnesses. *Salmonella* serotype information
12 should be factored in as well as should sporadic cases
13 of other pathogens.

14 The Committee believes that FSIS should not
15 refer to the programs in development as risk-based or
16 public health-based until it has more robust data
17 including a true national prevalence number as well as
18 enumeration and serotype information. The Agency
19 should ask the National Advisory Committee for the
20 Microbiological Criteria for Food, for assistance in
21 establishing appropriate data to be used and ways to
22 avoid methodological problems in using limited data to

1 develop the inspection levels.

2 The Subcommittee strongly recommends the
3 inclusion of serotype data in the data analysis and
4 how it relates to public health.

5 The Committee encourages FSIS to evaluate
6 the utility of more contemporary microbiological
7 technologies in Agency testing and for foodborne
8 attribution. FSIS should use the most current and
9 validated methodologies and work with USDA, ARS, other
10 public health agencies, universities, schools of
11 public health, and others, to look at these new
12 methodologies.

13 The Committee would be interested in hearing
14 updates of the Agency's progress on new methodologies
15 and especially on this meeting that is scheduled for
16 March with ARS.

17 So before we go onto the second one, are
18 there any comments or questions?

19 MR. TYNAN: And we'll use the same procedure
20 that we did earlier, stand your tent card up and then
21 we'll go around and call on you that way.

22 (No response.)

1 MR. TYNAN: No questions. Mrs. Foreman,
2 Dr. Cutter, if you're on the line.

3 MS. TUCKER-FOREMAN: I don't have any
4 proposed changes.

5 MR. TYNAN: Okay. Kevin, if you want to go
6 to question 2.

7 MR. ELFERING: I'll go onto issue 2. What
8 recommendations does the Committee have regarding how
9 to better use volume for ranking establishments within
10 the second level of the Public Health Risk-Based
11 Inspection System?

12 FSIS should differentiate product destined
13 for fully cooked product separate from raw product
14 volume, and FSIS should use pounds of product shipped,
15 not pounds of product produced. The consumer is not
16 exposed to pounds of product produced especially if
17 some of the product is being held. FSIS needs to
18 consider the fluctuation of production volume due to
19 seasonality.

20 Many of these were discussed at the last
21 Advisory meeting where we had to work on volume as
22 well, and it would probably be a good recommendation

1 for the Agency to review those issues that we talked
2 about at the last meeting.

3 MR. TYNAN: Did you want to include that
4 Kevin?

5 MR. ELFERING: Maybe we should put something
6 in there that in the last National Advisory meeting, a
7 Subcommittee did discuss issues with volume and the
8 Agency should refer to those recommendations as well.

9 That's it. That takes care of it.

10 MR. TYNAN: Comments or thoughts from the
11 Committee or from FSIS to clarify?

12 (No response.)

13 MR. TYNAN: Kevin, I think you've
14 established the all time record for reporting and
15 being done, or at least during my tenure of the
16 Committee.

17 Okay. Kevin, thank you very much, and I
18 thank the Subcommittee for doing that work.

19 What we need to do at this point is
20 generally, does the full Committee consider these to
21 be the recommendations that they want to put forward
22 to the Agency? Let's do it this way? Are there any

1 dissenters?

2 (No response.)

3 MR. TYNAN: There being none, I will assume
4 that this is the recommendations of the Committee.

5 And, Kevin, if you could clean up your act
6 and also the report, that would be great.

7 And I'm going to turn it over at this point
8 if there's no other questions or comments on this
9 piece, I'm going to turn it over to Dr. Dickson to
10 talk about the across establishment public health
11 risk-based establishment algorithm. And you had the
12 challenging four questions. We gave Kevin the easy
13 task today.

14 DR. DICKSON: Right. Our Subcommittee
15 Number 2 did have questions which of which revolved
16 around NRs, noncompliance reports and again I would
17 like to thank the Subcommittee, Craig Henry, Kibbe
18 Conti, Andrea Grondahl, Shelton Murinda, Brian
19 Covington, Joe Harris and Michael Kowalczyk, as well as
20 those who were in attendance in the audience. We had
21 very good audience participation, and I believe it was
22 very useful to the overall discussion of the issues,

1 and I wanted to thank them.

2 The questions that we had, forgive me, I'm a
3 little disjointed here, here we go, as I said, most of
4 these related to the issues of noncompliance reports
5 and where this fits in is in the conceptual approach
6 to the public health risk ranking, where we have a
7 magnitude component and a hazard or indicators of
8 process control component, and these mostly come into
9 part of the measure of the hazard or the indicators of
10 process control.

11 The first question was what data analysis,
12 in addition to those that have been done by FSIS,
13 would the Committee view as helpful to the Agency in
14 assessing the utility of the inclusion of inspection
15 observations, including those recorded as NRs, in its
16 public health risk-based inspection algorithm?

17 And one of the first things that our
18 Committee noted was that there's a considerable amount
19 of variation in NRs related to say geography of the
20 establishment, seasonal variation, perhaps
21 establishment-to-establishment variation, and in some
22 cases, perhaps inspector-to-inspector variations.

1 This is to be expected when you're dealing with
2 people. There will be variations.

3 Our interest in the Carnegie Mellon analysis
4 was we need to look at it more detailed. We need to
5 see how this was looked at, which NRs, looking at the
6 health-related NRs that FSIS selected, the industry
7 NRs, all the NRs. We were curious, for example, what
8 percentage of the overall NRs do the health related or
9 the FSIS NRs actually represent? I mean are we
10 looking at 1 percent of the total NRs that are
11 written? Are we looking at 10 percent, 50 percent,
12 things like that.

13 Some real concerns with that. We're
14 wondering about those NRs as they are spread out over
15 different production processes, whether it is really
16 fair to use a NR or a raw product or a broiler, for
17 example, with a fully cooked ready-to-eat product if
18 that's part of the same analysis. We wanted to look
19 at the Carnegie Mellon analysis in more detail. Also
20 concerns about a cross species, whether it was
21 reasonable to look at NRs in a poultry slaughter
22 facility versus a pork slaughter facility.

1 The second question related to a 30-day time
2 window, and the question was, for the purpose of
3 illustration, a 30-day time window was used for
4 calculating NR rates in the proposed algorithm. What
5 time window would the committee propose for
6 calculating NR rates and or what criteria should be
7 considered in establishing a time window?

8 I think it was the consensus of the
9 Committee that we really can't say whether the 30-day
10 time window is a good time window or a bad time window
11 or an okay time window. We really don't have the
12 information to make that decision. We had a
13 discussion about whether we should be looking at time
14 frame versus production volume. I believe it was the
15 consensus of the committee that we should probably be
16 looking at a timeframe, whether it's a 14 day or 28
17 day or whatever time period, that we should, in fact,
18 be looking at a timeframe.

19 There was a comment made by one of the
20 Subcommittee members that we should, in fact, just
21 start somewhere and that in the absence of anything
22 else, 30 days is probably as good as anything. We

1 should use that as a starting point, run the algorithm
2 and then evaluate the results. And in a sense, this
3 could be done as sort of a sensitivity analysis, look
4 at a 7 day, 14 day and a 30 day, or even 60 day, run
5 the algorithm, look at the results that come out and
6 the FSIS staff that were present indicated that this
7 is being done right now but we simply don't have the
8 results in front of us.

9 The third question was what other
10 recommendations does the Committee have regarding how
11 NRs can be used to establish levels of inspection?
12 And I think the point is, that that component of the
13 algorithm is really trying to capture the day-to-day
14 events in the establishment as opposed to some type of
15 event or episodic event, recall or positive test for
16 0157:H7. And we felt it was important that we do, in
17 fact, capture the day-to-day events.

18 Now NRs may or may not be the best way to do
19 that, and we may have some questions about how we're
20 putting all that in the algorithm but I think I'm
21 speaking for the Subcommittee here when we say that we
22 thought that it was important to capture those day-to-

1 day events in consideration of the risk ranking of a
2 particular establishment.

3 And again we deferred on that question as
4 well saying we'd like to see the results of the
5 preliminary runs of the algorithm to see what the
6 results look like.

7 The fourth question was what other
8 recommendations does the Committee have regarding the
9 use of process control indicators included in the
10 algorithm and process control indicators, and I'll
11 read this directly from the slide include -- by the
12 way, this is slide 5 in Dr. Travis first presentation,
13 across establishment ranking concept for processing
14 and slaughter. Indicator of process control, under
15 that definition, include measures over time,
16 verification testing, health based NRs, episodic
17 measures, FSAs, recalls, enforcements. The FSIS staff
18 also indicated that those indicators of process
19 control would include the same criteria used in
20 establishing levels of inspection. So that would
21 include things such as positive tests for *E. coli*
22 O157:H7, being associated with an illness or an

1 outbreak, things of that nature. We felt that the
2 list that FSIS had compiled was fairly comprehensive.
3 Given the timeframe we were working under, we really
4 didn't have any additional suggestions to incorporate
5 as far as other indicators of process control.

6 And with that, and I would emphasize that
7 this is a draft version of the report as the
8 Subcommittee has not had a chance to review it. So
9 I'd like to give them an opportunity to offer any
10 additional comments at this point in time.

11 MR. TYNAN: That's fine. We'll take a few
12 moments in the morning to revisit the report to make
13 sure everything was okay.

14 With that, if Dr. Dickson doesn't have
15 anymore to report, then I'll open it up for questions
16 from the Committee.

17 (No response.)

18 MR. TYNAN: Mrs. Foreman, I think we e-
19 mailed the two reports. Did you have any comments on
20 this one?

21 MS. TUCKER-FOREMAN: No, I don't. Thank
22 you.

1 MR. TYNAN: Okay. Kevin, I think
2 Dr. Dickson may have broken your record.

3 Okay. Then we'll revisit this in the
4 morning, but generally do we have consensus that some
5 of the things that Dr. Dickson talked about are worthy
6 recommendations?

7 (No response.)

8 MR. TYNAN: Okay. We'll revisit it again in
9 the morning.

10 MS. TUCKER-FOREMAN: Can you give a message
11 to Kevin please, that I found a couple of typos in
12 this, and I'm going to send it back and then he can
13 resend it to me with those marked.

14 MR. TYNAN: Yes, we'll resend the material
15 to you to make sure you have it.

16 MS. TUCKER-FOREMAN: I found a couple of
17 typos. I'm going to send it back to you all, if
18 you'll give it to Kevin.

19 MR. TYNAN: Okay. I misunderstood. I'm
20 sorry. Fortunately, Ellyn can hear better than I can
21 I guess.

22 Okay. With that, if there are no other

1 comments on the reports from the subcommittees, then
2 we're to the point in the agenda where we have public
3 comment. I would, before we introduce any of the
4 members of the public that would like to make a
5 comment, I wanted to mention to you that in our
6 Federal Register notice, I think we had suggested
7 comments going to the NACMPI e-mail box, and we have
8 established a special mailbox for this program, so
9 that after the fact, I think it'll be a little bit
10 easier for you to identify and find it than coming to
11 the NACMPI mailbox. So we have a new mailbox, and
12 we'll get this out on the table in the morning, but it
13 is going to be called publichealthbasedinspection, one
14 word, @fsis.usda.gov. So we'll have a continuing
15 dialogue with you and you can send comments to that,
16 and we'll make sure that the appropriate people have
17 access to that mailbox. We'll get your comments and
18 factor it in as this process evolves. So we do have a
19 new mailbox, and as I say, I'll have something for you
20 in the morning. We'll have it out on the table so you
21 can take that away with you if you have comments after
22 the meeting.

1 And with that, I'm going to -- I think we
2 had one person that signed up for today, and then I'll
3 open it up for anybody else that would like to
4 comment. I believe Felicia Nestor, you signed up for
5 a comment.

6 MS. NESTOR: Felicia Nestor, Food and Water
7 Watch, and I think probably none of you here are not
8 surprised at one of the comments I'm going to make.
9 But the first thing I wanted to support -- what
10 Dr. Negron said that just because something is, this
11 is my interpretation of what she said, just because
12 something is in the HACCP rule doesn't mean that it's
13 being implemented in the field. So as a consumer, I'm
14 not confident just because something is written on
15 paper. I need to know that it is actually being
16 implemented.

17 I was sitting in the room on the use of NRS
18 and I thought, if I heard it correctly, several people
19 that I would say are more from the industry side were
20 recommending that the Agency test drive the algorithm
21 and I would really like to support that idea. The
22 idea of rolling this thing out by implementing it in

1 every plant around the country just doesn't make sense
2 to me especially since there are so many unknowns with
3 it.

4 On Appendix B of both technical plans, the
5 prompts, I have some questions about how well and
6 easily that's going to be implemented. It seems to me
7 that several of these questions are going to be
8 difficult to answer as yes or no. For instance, if
9 you, if the inspector has to answer the questions, is
10 the establishment implementing prerequisite programs
11 -- processing as per their hazard analysis, I mean
12 that requires first of all the inspector determine
13 whether that was the cause of the non-compliance and
14 what do you do if there are several aspects of the
15 prerequisite programs. How do you answer yes or no
16 when there are five different aspects. So I really
17 think that that's one of the main reasons I think this
18 algorithm and this prompt system should be test
19 driven, and you're going to have to work the kinks
20 out.

21 And now the comment that I always make and
22 I'm sure it will surprise no one. When I was in

1 elementary school, or high school, I can't remember
2 the last time I read about the scientific methods, but
3 if you were doing an experiment, you record every
4 single factor that could have an impact on your
5 outcome, and the Agency has not recorded whether there
6 are no NRs in a plant because the inspector hasn't had
7 time to write the NRs or because the inspector has not
8 had time to do the inspection test in that plant.

9 I think that if a particular plant has a --
10 absence of an inspector, some of the findings in that
11 plant or some of the occurrences later could
12 eventually be linked to the fact that you had half or
13 a quarter or, you know, 10 percent of the normal --
14 inspections that that plant is supposed to have. And
15 I think that to the extent that this proposal is going
16 to be heavily driven by NRs, it's indispensable that
17 you have inspectors record when they do not do an
18 inspection test because they didn't have the time. I
19 mean that's just from your program. As a consumer and
20 as a taxpayer, I just don't know how you can even have
21 the chutzpah to say that your system is transparent if
22 you're not going to allow us to determine whether the

1 staff -- So -- and I mean I know OIG recommended
2 this many years ago. I keep talking about it. I
3 really think you need to do this. Thank you.

4 MR. TYNAN: Thank you, Ms. Nestor. Felicia
5 was the only person that signed up, but I will allow
6 others to come to the microphone if you could
7 introduce yourself and your affiliation.

8 MS. BUCK: My name is Pat Buck, and --

9 MS. TUCKER-FOREMAN: Robert, this is Carol.
10 I'm having trouble hearing. Could you maybe get
11 closer to the mic.

12 MR. TYNAN: Okay. We'll do it. Thank you,
13 Carol.

14 MS. BUCK: My name is Pat Buck, and I'm with
15 the Center for Foodborne Illness Research and
16 Prevention, and first of all, I just have a comment to
17 make to the NACMPI Committee. I applaud all of you
18 because you, like Dr. Raymond, like all the consumer
19 groups, was given a bulk of information almost 10 days
20 ago, 11 days ago, and I have already voiced that as
21 inappropriate to have FSIS dump us with that much
22 reading material in such a short period of time to

1 digest. I just wanted to make that clear. I think
2 FSIS has a responsibility to those of us who are
3 spending huge amounts of time to help you come up with
4 a plan that is workable, that we have time to really
5 review that information so that we can respond in a
6 thoughtful fashion. All right. So it's a criticism
7 not of the people on the Committee, of course, but I
8 think FSIS in the future should not do that one again,
9 in particular to Dr. Raymond, who has a lot of
10 responsibilities, too.

11 As far as the plan, well, I'm all in favor
12 of doing things to improve food safety. I think
13 everybody in the room knows that. I would like to see
14 some indication that we're not going to go down the
15 road that was traveled once before when we put
16 together a HACCP rule and then we didn't have the
17 means with which to implement it, to really bring
18 power to our new methods for controlling foodborne
19 disease in this country.

20 I think what a lot of people need right now
21 from the Agency is some indication that your intent is
22 to make this a sustainable system, so that when all of

1 the things that Felicia talked about with the NR
2 reporting, so that when new innovations are brought to
3 a industry, when they put new technology in place,
4 it's going to really reduce their risk for foodborne
5 pathogenic loads, we need to have a mandatory trace
6 back system, and I would like to see the Agency go
7 after that, with as much vigor as they would do
8 building this system here.

9 Your system is only going to be as good as
10 the data and I know I've talked frequently about the
11 need to get more data and I'm very proud of the Agency
12 for the efforts they are making to, you know, collect
13 more data, but until we have a lot more points and you
14 would get a lot more points if you had a trace back
15 system, I don't see how you are going to really build
16 this transitional system that you are now proposing
17 into a sustainable system that's going to protect the
18 large population of Americans that are already here
19 but there's more coming on the horizon. And so I
20 think the challenges that we have are to build a
21 strong system and I hope that the input that not only
22 consumer groups, but the industry and NACMPI have

1 given you will give you some guidance into the
2 direction you need to go, but you're going to have to
3 have mandatory trace back, and that includes mandatory
4 animal ID and you're going to need realistic and
5 enforceable performance standards. Thank you.

6 MR. TYNAN: Thank you, Ms. Buck. Do we have
7 any other comments from the public at this time?

8 (No response.)

9 MR. TYNAN: Okay. Dr. Raymond, did you have
10 a comment you wanted to make?

11 DR. RAYMOND: Yeah, I'd like to respond to
12 both Felicia and Pat, and thank them for their
13 comments and for coming and contributing also. I know
14 Pat's down for the Food Safety Education Partnership,
15 a two day meeting. So she's kind of combining two
16 meetings. So when she talks about us having lots of
17 things to do, we know Pat's got lots of things to do,
18 too and, of course, we'll defend Pat and I had this
19 conversation, I mentioned it earlier this morning.
20 We'll defend the 700 page data dump because most of it
21 was appendices and appendices, a lot of people get
22 into the weeds as much as they want or just the 30

1 page summary if that's all they want, too. So we will
2 continue to do things like that. We used to be
3 criticized when I first got here for not supplying
4 anything just prior to a meeting. I think there's one
5 meeting Mike might have got something to read on the
6 airplane just before he left town and that was the
7 first meeting I had came to. I promised Mike we would
8 never do that to him again. So this time you had to
9 carry an extra suitcase, of course, to bring the stuff
10 but we are doing it in an effort to get better.

11 Pat, I'm with you all the way on
12 sustainability. You know, you come to this town, this
13 Government for three years, you're going to see a
14 whole lot of changes, but by golly, anything you do
15 change, we want to make sure it continues for a long
16 time. Otherwise, it doesn't work, the three years, to
17 try to create the change. So we're doing everything
18 we can to build sustainability into this, including
19 this PHIS, which I know everybody had made the
20 comments, well, when's it going to deliver. Show us.
21 I'm a little bit of a nay sayer, too, when it comes to
22 IT but we're putting a lot on that and on Bill Smith

1 and his crew and our contractors and our other IT
2 folks and it is a make it or break deal I believe for
3 this new system. And that will be sustainable, of
4 course, once we build that baby. It will be good for
5 at least several years, and as you know with IT,
6 you've got to keep moving it and we'll have a baseline
7 there that we only dreamed about a couple of years
8 ago,

9 Track back, I'm with you, Pat, most of the
10 way. Mandatory animal ID, I'm not, but we are doing
11 better with trace back than we were a few years ago.
12 We could still do better. We need to find ways to get
13 better. Of the recalls for *E. coli* this summer, a
14 couple of them were related to trace backs and recalls
15 from slaughter facilities because of a recall that
16 involved a grinder, and we are making a serious effort
17 to find, you know, the origin of the problem, to go
18 upstream so to speak, some of the things that Carol
19 Maczka talked about in the plant. Instead of just
20 doing the NR, going upstream and try to find what
21 caused the NRs, you know, it's just a baseline.

22 And then, Felicia, for you, God bless you

1 for bringing it up every time you get up and talk
2 because Topps really was an eye opener to me, and this
3 new PHIS system is going to help prevent things like
4 that. If there is an outlying plant or inspector or
5 circuit that is writing fewer NRs than anybody else in
6 that district, they're going to be looked at with a
7 FSA. On the contrary, if there's a plant or an
8 inspector or circuit that's writing way more NRs than
9 anybody else in that district, we're going to look at
10 that one, too, because some of the variability from
11 individual to individual, which we've talked about for
12 two and a half years, how we're going to use NRs, it's
13 still there but we're trying to find ways to decrease
14 that variability with increased supervision, increased
15 training and increased education, but also using PHIS
16 so that analysts, who don't have time to go through, I
17 think as Carol mentioned, how many plants, how many
18 inspections days, you know, et cetera, that's an awful
19 lot of stuff to go through for a human, an analyst in
20 each district. And I do believe with PHIS, it's one
21 of those things, that's why we're bringing NRs into
22 this equation because we do believe we will be able to

1 decrease some of that variability.

2 Now if we cannot, I'm terribly opposed to
3 the 30 day, Dr. Dickson. I believe if we have that
4 much inspector variability, which Felicia reminds us
5 of, and part of it's the inspector, part of it is the
6 time they have to do their job, there's no question
7 about that. And part of it is their supervision, and
8 we've got to decrease that variability if we're going
9 to use a 30-day timeframe.

10 So, Felicia, another one of your regular
11 criticisms and well received one is we don't know why
12 an inspector, if they did or didn't do a procedure,
13 why they didn't do a procedure, that's a management
14 tool that we're committed to, and we listen to you.
15 And like I said, Topps opened up some eyes and we're
16 working on that also to put that into our management
17 system. So you're going to have to find something
18 else to talk about I hope. I hope.

19 MS. NESTOR: I will as soon as I see the
20 change.

21 DR. RAYMOND: I know. I understand. I
22 understand that also, and we're going to try to get

1 there as soon as we can. Thank you.

2 MR. TYNAN: I spoke with Mr. Almanza while
3 Dr. Raymond was speaking, and I think he felt that
4 Dr. Raymond was covering it. So he's graciously
5 relinquished his final comments for the day in the
6 interest of you've had a long day, a lot of
7 discussion. So while we have the opportunity to
8 close, I think we're going to do that.

9 We will start again at 8:15 in the morning.
10 We will be in this room. If you want to take your
11 books, I know everybody will be studying tonight over
12 dinner and looking at the material for tomorrow.
13 However, if you've already got it committed to memory
14 and want to leave it here, you're welcome to do that
15 as well. So you can do that.

16 So I'll see you at 8:15 in the morning.
17 Thank you.

18 (Whereupon, at 4:45 p.m., the meeting was
19 concluded.)

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1 C E R T I F I C A T E

2 This is to certify that the attached proceedings
3 in the matter of:

4 NATIONAL ADVISORY COMMITTEE ON

5 MEAT AND POULTRY INSPECTION

6 PLENARY SESSION

7 Arlington, Virginia

8 February 5, 2008

9 were held as herein appears, and that this is the
10 original transcription thereof for the files of the
11 United States Department of Agriculture, Food Safety
12 and Inspection Service.

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SEAN WILLIAMS, Reporter

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